



**65TH ANNUAL MEETING
& ToxExpo**
SAN DIEGO, CA MARCH 22-25, 2026

Program Supplement— Platform and Poster Sessions

Publication Date: February 19, 2026





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Registration



Toxicologists, trainees, individuals from related fields, and others working in toxicology are invited to register to attend the SOT 65th Annual Meeting and ToxExpo, where you will have access to:

- 60+ Featured and Scientific Sessions
(begin Monday, March 23)
- 30+ Poster Sessions
(begin Monday, March 23)
- 275+ ToxExpo Exhibits
(begin Monday, March 23)
- 40+ Exhibitor-Hosted Sessions and other exhibitor-hosted events
(begin Monday, March 23)
- Special events, such as the Welcome Reception, Awards Ceremony, and Tox ShowDown
(begin late afternoon Sunday, March 22)
- Luncheons, mentoring events, and receptions hosted by SOT Regional Chapters, Special Interest Groups, and Specialty Sections (begin the evening of Sunday, March 22)

SOT Registration Department



Mail:

SOT Headquarters
11190 Sunrise Valley Drive, Suite 300
Reston, VA 20191



Tel:

[703.438.3115](tel:703.438.3115)



Fax:

703.438.3113



Email:

sotmeetings@toxicology.org

Three Ways to Register in Advance

 Online:

www.toxicology.org/register

Requires payment by credit card.

 Mail or Fax:

Registration form must be received by March 19.

 Tel:

Monday–Friday, 9:00 AM–5:00 PM (ET)
Available through March 19.

Add-On Activities

All registrants can add on additional meeting experiences when registering or any time before or during the meeting, pending space availability. Some of these events are complimentary but require a reservation; others have an associated fee. Also, some events are limited to student and postdoc registrants. If you have already registered for the meeting, to add a special activity, visit the “[My Events](#)” area of your SOT account. Select “Annual Meeting 2026” and then “Add Tracks/Sessions” to register for one of the add-on events.

Add-On events include:

- Continuing Education courses
(Sunday, March 22; add-on fee)
- Career Exploration Through Speed Informational Interviews
(Tuesday, March 24; complimentary but limited space for graduate student and postdoc attendees; registration required)
- In Vitro Lecture and Luncheon
(Monday, March 23; \$10 and limited to student and postdoc attendees)
- NetworX Night
(Monday, March 23; complimentary but registration required; limited to graduate student and postdoc attendees)
- Postdoctoral Luncheon
(Tuesday, March 24; \$12 per attendee and limited to postdoc attendees)
- SOT Career Advancement Breakfast
(Tuesday, March 24; \$10 per attendee and limited to SOT members)
- Student/Postdoctoral Scholar Mixer
(Sunday, March 22; complimentary but reservation required; limited to student and postdoc attendees)
- Trainee Discussion with the Plenary Speaker
(Monday, March 23; complimentary but limited to graduate student and postdoc attendees; reservation required)
- Undergraduate Education Program
(Sunday, March 22; complimentary but limited to undergraduate students)

Registration Form*

R2026

(Page 1)

SOT 65th Annual Meeting and ToxExpo • March 22–25, 2026

PLEASE PRINT CLEARLY OR TYPE

(Required: Please check the appropriate box)

☐ SOT Member ☐ Nonmember Badge Name: _____

First Name/Middle Initial: _____ Last Name: _____

Title: _____ Professional Degree(s): _____

Organization/University: _____

(Is this a new employer and/or new address? ☐ Yes ☐ No)

Organization/University (second line, if needed): _____

Department: _____

Street Address: _____

City/Region: _____ State/Prov: _____ Postal Code: _____ Country: _____

Area Code/Telephone Number: _____ Fax Number: _____

Email Address: _____

Special Accessibility Requirements: _____

If you are a Student or Postdoc registrant, please complete the following information:

☐ Postdoc ☐ Graduate Student ☐ Undergraduate/High School Student; Expected Graduation Date _____ (Fax or mail a copy of student ID with the form)

Institution: _____ Advisor's Name: _____

Advisor's Telephone Number: _____ Advisor's Email: _____

REGISTRATION FEES

☐ I'm Already Registered

	Early-Bird Registration (Received by Jan. 30)	Standard Registration (Jan. 31 to Feb. 27)	Final Registration (After Feb. 27)	
SOT Member	\$545	\$610	\$670	\$ _____
Nonmember**	\$940	\$1,005	\$1,070	\$ _____
SOT Retired/Emeritus Member	\$175	\$235	\$285	\$ _____
SOT Postdoctoral Member	\$125	\$175	\$225	\$ _____
Postdoctoral Nonmember**	\$225	\$285	\$335	\$ _____
SOT Graduate Student Member	\$105	\$155	\$205	\$ _____
Graduate Student Nonmember**	\$185	\$235	\$295	\$ _____
Undergraduate Student (Copy of Student ID Required)	\$0	\$0	\$0	\$ _____
High School Student (Copy of Student ID Required)	\$0	\$0	\$0	\$ _____
SOT Global Partner (One Complimentary Registration per Company)	\$0	\$0	\$0	\$ _____
Press (Contact the SOT Communications Director for approval)	\$0	\$0	\$0	\$ _____
Guest/Spouse (Nonscientist/No Access to the Scientific Sessions or ToxExpo)	\$70	\$85	\$100	\$ _____

Guest/Spouse Name: _____

METHOD OF PAYMENT

All registrations submitted by hard copy or fax will be processed online by SOT staff.

Registration Fees (from page 1) \$ _____

☐ Check or Money Order #: _____
(PAYABLE TO "SOCIETY OF TOXICOLOGY")

Continuing Education Courses (from page 2) \$ _____

☐ Government Purchase Order #: _____
(US GOVERNMENT PO FORM MUST BE ATTACHED)

Add-On Events (from page 2) \$ _____

☐ American Express ☐ Diner's Club ☐ Discover ☐ MasterCard ☐ Visa

TOTAL DUE \$ _____

Credit Card #: _____ CCV: _____ Expiration Date: _____

Signature: _____ Cardholder's Printed Name: _____

By registering for the SOT Annual Meeting and ToxExpo, you agree to the terms and conditions outlined in the registration policies on the third page.

* SOT will accept faxed Registration Forms until March 19. Online registration will be open until March 25. On-Site registration will be available at the San Diego Convention Center in San Diego.

** Apply for SOT membership by December 31, 2025, to enjoy discounted member registration rates. Those who are accepted are notified in late February when you can register for the meeting with substantial savings over the nonmember rate. If you miss the December 31, 2025, deadline, nonmember 2026 Annual Meeting and ToxExpo attendees can submit applications for the March review cycle (deadline March 31, 2026), and upon acceptance, SOT will waive your 2026 membership dues!

RETURN THIS TWO-PAGE FORM WITH PAYMENT TO:

SOT Headquarters Registration Dept., 11190 Sunrise Valley Drive, Suite 300, Reston, VA 20191-4375

Faxed forms are accepted only if using a credit card. Fax form to 703.438.3113.

US GOVERNMENT PURCHASE ORDERS MUST BE FAXED OR MAILED WITH THE REGISTRATION FORM.

Questions? Contact SOT. • Tel: 703.438.3115 • Email: sothq@toxicology.org

Registration Form

(Page 2)

SOT 65th Annual Meeting and ToxExpo • March 22–25, 2026

CONTINUING EDUCATION COURSES

☐ Yes, I would like to attend the indicated CE courses. (Only meeting registrants may enroll in a CE course.) (One per time slot) AM # _____ PM # _____
Visit www.toxicology.org/sot-ce to view course list and numbers.

	Early-Bird Registration (Received by Jan. 30)	Standard Registration (Jan. 31 to Feb. 27)	Final Registration (After Feb. 27)	# of Courses	
SOT Member/Global Partner	\$190 each	\$225 each	\$260 each	x _____	\$ _____
SOT Retired/Emeritus Member	\$145 each	\$180 each	\$215 each	x _____	\$ _____
Nonmember	\$340 each	\$375 each	\$410 each	x _____	\$ _____
Postdoctoral (SOT Member/Nonmember)	\$110 each	\$145 each	\$180 each	x _____	\$ _____
Student (SOT Member/Nonmember)	\$65 each	\$100 each	\$135 each	x _____	\$ _____
Press	\$0	\$0	\$0	x _____	\$ _____

☐ Yes, I would like to attend the indicated CE Sunrise Minicourse (includes continental breakfast). SR # _____

SOT Member/Global Partner	\$85	\$120	\$155	\$ _____
SOT Retired/Emeritus Member	\$80	\$115	\$150	\$ _____
Nonmember	\$105	\$140	\$175	\$ _____
Postdoctoral (SOT Member/Nonmember)	\$65	\$100	\$135	\$ _____
Student (SOT Member/Nonmember)	\$35	\$70	\$105	\$ _____
Press	\$0	\$0	\$0	\$ _____

ADD-ON EVENTS

- ☐ Yes, I am an undergraduate student and would like to attend the Sunday Undergraduate Education Program. (Limited seating; registration required) \$ _____ 0
- ☐ Yes, I am a student or postdoctoral registrant and would like to attend the Student/Postdoctoral Mixer on Sunday, 7:30 pm–9:00 pm. (Registration required) \$ _____ 0
- ☐ Yes, I am a graduate student or postdoctoral member registrant and would like to attend the Trainee Discussion with Opening Plenary Speaker on Monday, 9:30 am–10:00 am. (Limited seating; registration required) \$ _____ 0
- ☐ Yes, I am a student or postdoctoral registrant and would like to attend the *In Vitro* Lecture and Luncheon on Monday, 12:00 noon–1:30 pm. (Limited seating; registration required) \$ _____ 10
- ☐ Yes, I am a graduate student or postdoc and would like to participate in NetworX Night on Monday, 7:30 pm–9:00 pm. (Limited seating; registration required) \$ _____ 0
- ☐ Yes, I would like to attend the Career Advancement Breakfast as an advisee on Tuesday, 7:30 am–9:00 am. (SOT members only; limited seating; registration required) \$ _____ 10
- ☐ Yes, I am a postdoctoral registrant and would like to attend the Postdoctoral Luncheon on Tuesday, 12:00 noon–1:15 pm. (Limited seating; registration required) \$ _____ 12
- ☐ Yes, I am a graduate student or postdoctoral registrant and would like to attend the Career Exploration session on Tuesday, 1:45 pm–3:00 pm. (Limited seating; registration required) \$ _____ 0

REGISTRANT—CHECK ALL THAT APPLY: (YOU MUST MAKE ONE SELECTION PER CATEGORY)

A. Type of Organization:

- ☐ 1. Academia
☐ 2. Consultant
☐ 3. Contract Research
☐ 4. Government
☐ 5. Military
☐ 6. Private Industry
☐ 7. Other _____

B. Job Function:

- ☐ 8. Analytical
☐ 9. Financial/Purch.
☐ 10. Computer/Statistics
☐ 11. Health and Safety
☐ 12. Mgmt. Corporate
☐ 13. Mgmt. Facilities
☐ 14. Mgmt. Personnel
☐ 15. Marketing/Sales
☐ 16. Quality Assurance
☐ 17. Regulatory
☐ 18. R&D Admin.

C. Field of Work:

- ☐ 19. R&D Operations
☐ 20. R&D Technical
☐ 21. Teaching
☐ 22. Other _____
☐ 23. Biological Modeling
☐ 24. Biotechnology
☐ 25. Carcinogenesis
☐ 26. Cardiovascular
☐ 27. Clinical and Transl. Tox.
☐ 28. Comparative and Vet.
☐ 29. Computational Tox.
☐ 30. Dermal Tox.
☐ 31. Drug Discovery Tox.
☐ 32. Epidemiology
☐ 33. Ethical, Legal, Forensics, and Societal Issues
☐ 34. Exposure
☐ 35. Food Safety

D. Product Interest:

- ☐ 36. General Tox.
☐ 37. Genetic Tox.
☐ 38. Immunotoxicology
☐ 39. Infusion Tox.
☐ 40. Inhalation Tox.
☐ 41. *In Vitro* and Alt. Methods
☐ 42. Mechanisms
☐ 43. Medical Devices
☐ 44. Metals
☐ 45. Methods
☐ 46. Mixtures
☐ 47. Molecular Biology
☐ 48. Mutagenicity
☐ 49. Nanotoxicology
☐ 50. Neurotoxicology
☐ 51. Occup. and Public Health
☐ 52. Ocular Tox.
☐ 53. Pathology
☐ 54. Pharmacokinetics

E. Product Interest:

- ☐ 55. Pharmacology
☐ 56. Risk Assessment
☐ 57. Reg. and Safety Eval.
☐ 58. Repro. and Develop. Tox.
☐ 59. Stem Cells
☐ 60. Other _____
☐ 61. Publications
☐ 62. Contract Services:
☐ a. Analytical
☐ b. Aquatic Tox.
☐ c. Clinical Tox.
☐ d. Computer
☐ e. *In Vitro* Tox.
☐ f. Metabolic Profile
☐ g. Pathology
☐ h. Preclinical Tox.
☐ i. Quality Assurance
☐ j. Wildlife Tox.

F. Supplies/Equipment

- ☐ a. Analytical
☐ b. Clinical Chem.
☐ c. Hardware
☐ d. Software
☐ e. *In Vitro*
☐ f. *In Vivo*
☐ g. Lab Animal
☐ h. Neurotoxicology
☐ i. Pathology
☐ j. Radioactive Isotope
☐ 64. Other _____

G. Purchasing Responsibilities:

- ☐ 65. ☐ a. I make purchasing decisions
☐ b. I influence purchasing decisions
☐ c. I do not participate in purchasing decisions

Refund or cancellation requests must be received at SOT Headquarters by February 27, 2026.
Requests received after February 27, 2026, will not be processed.

SOT will accept faxed Registration Forms until March 19. Online registration will be open until March 25.
Registration Forms also will be available on-site at the San Diego Convention Center in San Diego.

2026 SOT Annual Meeting and ToxExpo Policies

Attendee Qualifications

The Society of Toxicology (SOT) reserves the right to review applications for participation at the SOT Annual Meeting and ToxExpo to confirm that the applicant meets the SOT attendance qualifications. The Society may reject a registration by any individual or organization or withdraw registration privileges at any time if the individual or organization is found to be inconsistent with or in violation of the Society's principles, interests, and policies.

Individuals

Participation is available only to bona fide individuals who are engaged in or promote the field of toxicology or biotechnology research and support the growth and development of the toxicology field.

Organizations

Participation is available only to bona fide organizations with public policy positions and business practices that are generally consistent with the [SOT mission](#), goals, and reputation, as well as the Society's [policies and principles](#).

Attendance Requirements

SOT reserves the right to implement policies, procedures, and requirements to protect the health of all individuals associated with the meeting. If such policies are developed, all registrants will be notified of the changes and new requirements, and these policies will be updated to reflect the new requirements.

Attendance Terms and Conditions

By registering for the SOT Annual Meeting and ToxExpo, you are agreeing to abide by the SOT [Code of Conduct](#) policy and to the terms and conditions outlined here, granting SOT permission to:

- Reproduce, copy, and publish your image, voice, and any or all media taken at the Annual Meeting and ToxExpo.
- Share your contact information with organizations that the Society believes might have a product or service of interest to you. Limited data provided to third parties include name, title, affiliation, and business address. Your telephone and fax numbers and email address will not be disclosed to third parties.
- Share your name and affiliation with [ToxExpo exhibitors](#) and Annual Meeting Supporters.
- Include your name and affiliation in the attendee list, which will be accessible to meeting registrants using the SOT Event App.

SOT Annual Meeting and ToxExpo registrants:

- Will conduct a self-health assessment before arriving at any in-person events and will not participate at any in-person sessions if they are experiencing any symptoms of contagious or transmittable illness.
- Acknowledge that participating in this event and interacting with people place you at risk of exposure to or illness from infectious diseases regardless of your or their vaccination status.
- Acknowledge that SOT may need to share your contact information with public health authorities or other associated personnel if a public health event becomes associated with the meeting.
- Confirm, acknowledge, and will abide by all applicable regulations and health and safety protocols instituted by SOT and local and national authorities.
- Assume the risk of injury, harm, and loss associated with the event, including any injury, harm, and loss caused by the negligence, fault, or conduct of any kind on the part of SOT, its vendors, and its partners.

SOT Annual Meeting and ToxExpo registrants (excluding registered guests) are allowed to bring children under full parental/guardian control into Scientific Sessions and the ToxExpo Exhibit Hall during open hours only.

- Full control entails ensuring that children do not interfere with exhibits and sessions or display disruptive behavior (i.e., no running, no excessive noise).
- Parents/guardians will be liable for any damage to exhibits.
- In consideration of other participants, disruptive children should be removed from the hall or session.

SOT Annual Meeting and ToxExpo registrants are prohibited from:

- Inviting guest/spouse registrants into Scientific Sessions and the ToxExpo Exhibit Hall.
- Soliciting in the ToxExpo Exhibit Hall unless registered as an exhibitor. SOT retains the right to remove any company or individual that has not duly contracted for exhibit space.
- Speaking on electronic devices while attending Scientific Sessions. Attendees are asked to silence all electronic devices while attending Scientific Sessions.

These policies will be enforced by the Society. Individuals who do not comply will be asked to leave the session and/or ToxExpo Exhibit Hall. To request an exemption from any of the Annual Meeting and ToxExpo policies, the registrant must submit written notification to SOT Headquarters before the Annual Meeting and ToxExpo or while on-site. If you have any questions regarding these policies, please contact the [SOT Headquarters Office](#).

Photography and Other Media Policies

The Society does not permit photography or media capture—such as video or audio recordings or screenshots—of Scientific Sessions, the ToxExpo Exhibit Hall, or any virtual presentations (e.g., ePosters, livestreams, on-demand videos) without the consent of the session Chair, the presenter(s)/author(s), and/or the exhibitor(s). Failure to follow these policies may result in the removal of an individual from the meeting without warning or refund of any expenses, prohibition of attendance at future SOT meetings, and notification to the individual's employer. In addition:

- Photographing colleagues against the backdrop of scientific posters on display without the express consent of the presenting author(s) is prohibited, as is photographing, capturing, or screenshotting posters and ePosters on display physically or virtually.
- Photographing or recording ToxExpo exhibit booths without the consent of a representative of the exhibiting organization is prohibited.
- Media capture of Scientific Sessions or Exhibitor-Hosted Sessions via any method is prohibited, including capturing any element of any session that may be presented virtually, without the permission of the session Chair(s), presenter(s), and/or exhibitor(s).

SOT Code of Conduct

The Society of Toxicology (SOT) is committed to providing a safe and productive environment for all its meetings—one that fosters open dialogue, the free exchange of scientific ideas, the promotion of equal opportunity and is free of any sort of harassment, coercion, and discrimination. The [SOT Code of Ethics](#) requires all members to act with integrity, and it is expected that all meeting participants treat others with respect and consideration; follow venue rules; and alert SOT staff, officers, or security of any potentially dangerous situations, individuals in stress, or instances of harassment, coercion, or discrimination. SOT is fully cognizant that there are areas of science that are controversial. SOT meetings will serve as a forum to consider and debate scientifically relevant viewpoints in an orderly, respectful, and fair manner. The policies herein apply to all meeting attendees, speakers, exhibitors, guests, staff, contractors, and volunteers.

What is harassment?

Harassment includes any communication or behavior that is not welcome or is personally offensive. Harassment for any reason is not tolerated by the Society. Behavior acceptable to one person may not be acceptable to others. Therefore, meeting attendees must use discretion to ensure that respect is clearly communicated. Harassment expressed in a joking manner still constitutes unacceptable behavior. Retaliation for reporting harassment is a violation of this policy, as is reporting an incident in bad faith.

Reporting harassment

SOT is committed to providing a safe environment for everyone at any SOT meeting. If an individual experiences or witnesses harassment of any kind, they should contact SOT staff [by email](#) or by calling [703.438.3115](#) or should use a venue phone or personal cell phone to contact venue security. All complaints will be treated seriously and responded to promptly according to SOT policies and procedures.

To file a grievance of harassment:

- Notify [meeting staff by email](#) or by calling [703.438.3115](#).
- SOT staff will discuss any grievance first with the individual filing the grievance, then with the alleged offender; seek counsel if the appropriate action is unclear; and report the incident and any findings to SOT Council and the Society's legal counsel.
- SOT will consult with the individual filing the grievance before taking any action.

SOT reserves the right to remove an individual from a meeting without warning or refund of any expenses, to prohibit attendance at future SOT meetings, and to notify the individual's employer.

If there are questions related to this policy, please send an email to [SOT Headquarters](#) to the attention of the SOT Executive Director or call [703.438.3115](#).

SOT Privacy Policy and Disclaimer

The SOT Annual Meeting and ToxExpo adheres to the Society's [general privacy policy and disclaimers](#).



The Society of Toxicology has established a special category for private, public, and not-for-profit organizations that wish to contribute to the success of the Society through year-round support. You, too, can become among those organizations that demonstrate their commitment to the SOT mission of “creating a safer and healthier world by advancing the science and increasing the impact of toxicology.” Organizations interested in becoming an SOT Global Partner should contact [SOT Headquarters](#).

Here’s Why You Should Support SOT

By becoming an SOT Global Partner, organizations are:

- Supporting the premiere toxicology society in increasing the scientific impact of and advocating for the value of toxicology
- Contributing to the success of scientific meetings in toxicology and attracting scientists at all stages of their careers from around the globe
- Promoting the importance of education and building for the future of toxicology
- Encouraging activities aligned with the prediction and prevention of toxicity and disease

AbbVie, Inc.
North Chicago, Illinois

Bristol Myers Squibb
Princeton, New Jersey

**UL Research Institutes’
Chemical Insights**
Marietta, Georgia

Chevron Technical Center
Houston, Texas

Colgate-Palmolive Company
Piscataway, New Jersey

Corteva Agriscience
Indianapolis, Indiana

DuPont de Nemours, Inc.
Wilmington, Delaware

**ExxonMobil
Biomedical Sciences, Inc.**
Spring, Texas

Genentech, Inc.
South San Francisco, California

Gilead Sciences, Inc.
Foster City, California

Inotiv
West Lafayette, Indiana

J.S. Held LLC
Redmond, Washington

Lonza Bioscience
Walkersville, Maryland

Novartis Pharma AG
Basel, Switzerland

Oxford University Press
Oxfordshire, United Kingdom

Pfizer, Inc.
Cambridge, Massachusetts

Procter & Gamble Company
Mason, Ohio

Regeneron Pharmaceuticals, Inc.
Tarrytown, New York

Sanofi
Cambridge, Massachusetts

Syngenta Crop Protection, Inc.
Greensboro, North Carolina

As of November 2025

General Information



Meeting Overview

This event brings together 4,000+ toxicologists and those working in areas related to toxicology to share the latest science and technology in the field, as well as to make new connections, gather with friends, and engage in mentoring and professional development.

More than 60 Featured and Scientific Sessions will take place alongside 1,900+ poster presentations and the three-day ToxExpo.

The atmosphere during the SOT Annual Meeting and ToxExpo is relaxed, yet lively, with attendees dressed in business casual attire. The science is taken seriously, but presenters and registrants are friendly and approachable.

The SOT Annual Meeting and ToxExpo website contains details on dozens of resources and services that will be available during the meeting, including:

- » [FedEx Office Print & Ship Center](#)
- » [First-Aid and emergency services](#)
- » [Food vendors and options](#)
- » [Inclusivity and accessibility](#)
- » [Lost and found](#)
- » [San Diego attractions](#)
- » [SOT Office](#)
- » [Sustainability at the San Diego Convention Center](#)

Inclusivity

A Commitment to All Meeting Participants

SOT and the San Diego Convention Center are committed to providing an inclusive, accessible, and enjoyable experience during the SOT Annual Meeting and ToxExpo. Information on available resources is available on the [Annual Meeting website](#). If you need any services not listed on this page or the website to support your full participation in the meeting, please indicate your needs while registering for the meeting and contact Maureen Bayley at SOT Headquarters by [email](#) or phone [703.438.3115](#). Resources available to promote inclusivity and accessibility include:

- Hearing-Assistance headsets in all Scientific Session rooms
- Mothers' Lounges and Mamava Pods
- Quiet Room that offers an escape from the meeting activity



Exhibitor-Hosted Sessions

For the most up-to-date list of Exhibitor-Hosted Sessions, use the [SOT Online Planner](#) or the [SOT Event App](#).

Annual Meeting Support



Thank you to our Diamond Supporters.*

*As of February 19, 2026



View all our generous Supporters by visiting www.toxicology.org/support.

Platform Sessions



All titles and author blocks that appear in this publication have been reprinted as submitted. No edits have been made by SOT or its representatives.

Monday, March 23, 12:10 PM to 1:40 PM, Ballroom 6E, Convention Center

PL Platform Session: Computational Tools for Tricky Questions

Chair(s): Sudin Bhattacharya, Michigan State University; and Nynke Kramer, Wageningen University, The Netherlands.

Abstract #

- #2000 12:10 PM **Multi-Task Neural-ODE Modeling of Nanoparticle Biodistribution in Tumor-Bearing Mice for Toxicological Risk Assessment.** Z. Zhang, and Z. Lin. University of Florida, Gainesville, FL.
- #2001 12:25 PM **RADisH: ROBOKOP Assisted Discovery of *in silico* Hypotheticals, A case study of mechanisms linking nuclear receptors to liver disease.** N. Tucker¹, M. DeLuca¹, J. Beasley¹, J. Wellnitz¹, K. Fecho², K. Carter³, C. Bizon³, and A. Tropsha¹. ¹University of North Carolina at Chapel Hill, Chapel Hill, NC; ²Copperline Professional Solutions, Chapel Hill, NC; and ³RENCI, Chapel Hill, NC.
- #2002 12:40 PM **From black boxes to chemical interpretability: explainable deep learning for mutagenicity prediction.** D. Khasanova^{1,2}, C. H. Schwab¹, O. Sacher¹, T. Magdziarz¹, C. Barber³, and I. Tetko². ¹MN-AM, Molecular Networks GmbH, Nuremberg, Germany; ²Helmholtz Munich, Institute of Structural Biology, Neuherberg, Germany; and ³Lhasa Limited, Leeds, United Kingdom.
- #2003 12:55 PM **Leveraging Automated Data Mining and Machine Learning to Rank and Predict PFAS Toxicity.** T. Yang, and P. Gao. Harvard University, Boston, MA.
- #2004 1:10 PM **Deciphering exposure-driven biology through integrative multi-omics using tidyexposomics.** J. Laird^{1,2}, T. Hartung^{1,2,3}, F. Sillé^{1,2}, and A. Maertens^{1,2}. ¹Johns Hopkins University, Baltimore, MD; ²Center for Alternatives to Animal Testing (CAAT), Baltimore, MD; and ³CAAT-Europe, Konstanz, Germany.
- #2005 1:25 PM **Cross-Species Translatability Illuminated by Over 7,000 Marketed and Investigational Drugs: Modality and Species-Stratified Concordance Mapping Between Preclinical and Clinical Phenotypes.** X. Liu, and F. Fan. J&J, San Diego, CA.

Monday, March 23, 3:45 PM to 4:45 PM, Ballroom 6C, Convention Center



Platform Session: Warp and Weft: Integrating Diverse Testing Strategies in Pharma's Fabric

Chair(s): Rhiannon Hardwick, Bristol Myers Squibb; and Isaac Mohar, Gradient.

Abstract

- #2006 3:45 PM **Unique Nonclinical Safety Profile of PF-06835919, A Ketohexokinase Inhibitor, Highlights A Species-Dependent Mechanism.** *J. Zhou¹, C. Houle¹, F. Geoly¹, S. Champion¹, and J. C. Cook^{1,2}.*
¹Drug Safety R&D, Pfizer Research and Development, Groton, CT; and ²Retired, East Lyme, CT.
- #2007 4:00 PM **The application of New Approach Methods in drug discovery: Three case studies of fit-for purpose model development to improve human risk translation.** *A. Sedgwick, B. Cai, T. Wyseure, and W. Hu.* Vividion Therapeutics, San Diego, CA.
- #2008 4:15 PM **Safety Evaluation of Supraphysiological Tradipitant Dosing under Differential Liver Metabolism.** *J. L. Carlin¹, S. Smieszek¹, G. Birznieks¹, C. Polymeropoulos¹, M. H. Polymeropoulos¹, J. Hickman², R. Brighton², M. J. Rupa², and C. Long².* ¹Vanda Pharmaceuticals, Washington, DC; and ²Hesperos, Orlando, FL.
- #2009 4:30 PM **Development of *in vivo* and *in vitro* Models for De-risking Adrenal Insufficiency.** *L. Liu, M. Pepper, D. Thudium, E. Besteman, M. Mulholland, C. Grace, T. Johnson, R. J. Gonzalez, and K. Pearson.* Merck, West Point, PA.

Congratulations to the 2026 SOT Award Recipients



SOT Achievement Award

Katie Paul Friedman, PhD
UL Research Institutes' Chemical Insights,
Research Triangle Park, NC



SOT Arnold J. Lehman Award

Babasaheb Sonawane, PhD
Independent Consultant, Newberry, FL



SOT Distinguished Toxicology Scholar Award

Pamela J. Lein, PhD
University of California Davis, Davis, CA



SOT Education Award

B. Paige Lawrence, PhD
University of Rochester Medical Center, Rochester, NY



SOT Enhancement of Animal Welfare Award

Mathieu Vinken Sr., PharmD, PhD
Vrije Universiteit Brussel, Brussels, Belgium



SOT Founders Award

(for Outstanding Leadership in Toxicology)
Janice E. Chambers, PhD, DABT, ATS, AAAS Fellow
Mississippi State University, Mississippi State, MS



SOT Leading Edge in Basic Science Award

Staci Simonich, PhD
Oregon State University, Corvallis, OR

HONORARY MEMBERSHIP



Barry H. Rumack, MD
University of Colorado School of Medicine, Aurora, CO

TOXICOLOGICAL SCIENCES PAPER OF THE YEAR AWARD



**Jiri Aubrecht, David Potter, John Michael Sauer,
Roscoe Warner, Kent J. Johnson, Mitchell R. McGill,
Katrina Peron, and Nicholas M. P. King.**

"Serum Glutamate Dehydrogenase Activity Enables Sensitive
and Specific Diagnosis of Hepatocellular Injury in Humans."
2025. *Toxicological Sciences* 203, no. 2 (February): 171–180.



SOT Merit Award

Ruth A. Roberts, PhD, ATS, ERT, FRSE, FBTS, FRCPath
Apconix, Alderley Park, Cheshire, United Kingdom



SOT Public Communications Award

Paloma I. Beamer, PhD
University of Arizona, Tucson, AZ



SOT Science Policy Leadership Award

Senator Elissa Slotkin (D-MI)
US Senate, Washington, DC



SOT Toxicologist Mentoring Award

A. Jay Gandolfi, PhD
University of Arizona, Tucson, AZ



SOT Translational Impact Award

Alison Cory Pearson Elder, PhD
University of Rochester Medical Center, Rochester, NY



SOT Rekha Mehendale Undergraduate Educator Award

Tisha King-Heiden, PhD
University of Wisconsin–La Crosse, La Crosse, WI

SUPPORTED AWARDS



**Bristol Myers Squibb Graduate Student Research
Training Award to Promote Diversity in Toxicology**
Madeline Vera-Colón, MS
University of California Irvine, Irvine, CA



Colgate Palmolive Grant for Alternative Research
Seyran Mutlu, PhD
Universität Bern Department of Biomedical Research Lung
Precision Medicine Cluster, Bern, Switzerland



**Colgate-Palmolive Postdoctoral Fellowship Award
in In Vitro Toxicology**
Ramsés Santacruz-Márquez, PhD
University of Illinois at Urbana-Champaign, Champaign, IL



Pfizer Graduate Fellowship Award
Sebastian Gutsfeld, MSc
Helmholtz Centre for Environmental Research,
Leipzig, Germany

www.toxicology.org/awardees

Tuesday, March 24, 9:45 AM to 10:45 AM, Ballroom 6E, Convention Center

PL Platform Session: Inside Out: Micro- and Nanoplastics Across Tissues and Fluids

Chair(s): Andrea De Vizcaya Ruiz, University of California Irvine; and Xiang Xue, University of New Mexico.

Abstract

- #2010 9:45 AM **Size-Dependent Pharmacokinetics of Oral Microplastics: Development of a Physiologically-Based Model with Local Gastrointestinal Binding.** *H. Nandula, W. Chou, and A. Canchola.* University of California-Riverside, Riverside, CA.
- #2011 10:00 AM **Microplastics in Human Tissues: Examining Plastic Particulate Accumulative Patterns Across Decades (1980s vs 2020s).** *R. R. Gullapalli, R. Kumar, A. Chinala, D. F. Gallego, E. E. Hayek, M. J. Campen, and M. A. Garcia.* University of New Mexico, Albuquerque, NM.
- #2012 10:15 AM **Advancing the method for isolating and quantifying MNPs in human cerebrospinal fluid for Brain Waste Clearance Studies.** *S. Patil¹, R. Herrera¹, M. Park¹, J. Kingston¹, M. Garcia¹, M. MazloumiBakhshayesh¹, R. Lui¹, T. Howard¹, J. Gross¹, J. Gonzalez-Estrella², S. Noor¹, K. Bhaskar¹, B. Shuttleworth¹, C. Cole¹, M. Campen¹, A. Carlson¹, and E. El Hayek¹.* ¹University of New Mexico, Albuquerque, NM; and ²Oklahoma State University, Stillwater, OK.
- #2013 10:30 AM **Detection of Microplastics and Other Contaminants in Banked Human Breast Milk Using FTIR.** *M. Bourgeois, S. Purohit, and R. Harbison.* University of South Florida, Tampa, FL.

Tuesday, March 24, 11:00 AM to 12:30 PM, Ballroom 6C, Convention Center

PL Platform Session: Reproductive Toxicants: Appetite for Disruption

Chair(s): Angela Dean, University of Illinois at Urbana-Champaign; and Aileen Keating, Iowa State University.

Abstract

- #2014 11:00 AM **Beyond the Brain: Perfluorooctanoic acid exposure disrupts serotonin signaling in the pancreas and causes gestational diabetes in mice.** *K. L. Bergman¹, M. Jerred¹, M. O'Connell¹, C. Mesaros², and M. Susiarjo¹.* ¹University of Rochester, Rochester, NY; and ²University of Pennsylvania, Philadelphia, PA.
- #2015 11:15 AM **Fetal rat testis toxicity of a nine-phthalate mixture.** *J. Helmbreck, Z. Zhao, J. Scott, M. Woodcock, C. Su, S. J. Hall, K. Pennell, A. Badea, and D. J. Spade.* Brown University, Providence, RI.
- #2016 11:30 AM **DDT's Lasting Legacy: Endocrine Activity and Developmental Toxicity of DDT+ and the Emerging Co-Contaminant Tris(4-chlorophenyl)methanol (TCPMOH).** *A. J. Torres-Berrios¹, S. Khanum², J. Domaoal², K. Polemi¹, R. Felton³, C. Tubbs³, N. Dodder², E. Hoh², and K. E. Sant¹.* ¹Michigan State University, East Lansing, MI; ²San Diego State University, San Diego, CA; and ³San Diego Zoo Wildlife Alliance, San Diego, CA.
- #2017 11:45 AM **Co-Exposure to Mono(2-ethylhexyl) Phthalate and High Temperature Inhibits Mouse Antral Follicle Growth and Estradiol Synthesis *In Vitro*.** *S. Ghuneim, G. Ruschman, C. Harper, M. Wilson, and P. Hannon.* University of Kentucky, Lexington, KY.

- #2018 12:00 Noon **Acute Exposure of Imidacloprid Affects Uterine Homeostasis in Mice.** S. E. Caron, L. Williams, R. Shukla, J. Oladosu, A. Kannan, J. A. Flaws, and I. C. Bagchi. University of Illinois Urbana-Champaign, University of Illinois Urbana-Champaign, IL.
- #2019 12:15 PM **Neonicotinoid metabolites cross the placenta and blood-brain barrier and impair trophoblast function in a compound-specific manner.** R. Marathe, S. Jovanovic, N. Pascuali, Z. Vahora, B. Lawate, L. Villareal, R. Rayala, H. Chen, S. Khetani, and A. Veiga-Lopez. University of Illinois Chicago, Chicago, IL.

Tuesday, March 24, 1:00 PM to 2:30 PM, Ballroom 6E, Convention Center

PL Platform Session: Sowing the Seeds of Safety: Building the Toolbox for Botanical Safety Assessment

Chair(s): Zakiyah Henry, NIEHS; and Sidhartha Ray, Touro University College of Pharmacy.

Abstract #

- #2020 1:00 PM **Advancing Dermal Toxicity Assessment for Botanicals: *in silico* approaches.** A. Islas-Robles¹, C. Mitchell², V. Lough¹, I. Lee³, C. Bascoul⁴, P. Wages⁵, and W. Cheng⁵. ¹Institute for In Vitro Sciences, Gaithersburg, MD; ²Health and Environmental Sciences Institute, Washington, DC; ³Research Institute for Fragrance Materials, Mahwah, NJ; ⁴dōTERRA, Pleasant Grove, UT; and ⁵The Estée Lauder Companies, Melville, NY.
- #2021 1:15 PM **Understanding the Toxicity of Plant-Derived Prenylated Phenolics using QSAR Modelling and Molecular Dynamics Simulations.** J. H. Ritsema^{1,2}, X. Zhang², A. Bombelli¹, C. Araya-Cloutier¹, J. Vincken¹, and N. I. Kramer². ¹Laboratory of Food Chemistry, Wageningen University and Research, Wageningen, Netherlands; and ²Toxicology Chair Group, Wageningen University and Research, Wageningen, Netherlands.
- #2022 1:30 PM **Integration of computational models to predict botanical phytochemical constituent clearance routes by the Extended Clearance Classification System (ECCS).** Y. Liu¹, M. Lawless², A. Roe³, and S. Ferguson⁴. ¹Food and Drug Administration, Laurel, MD; ²Simulations Plus, Inc, Durham, NC; ³The Procter & Gamble Co., Cincinnati, OH; and ⁴National Institute of Environmental Health Sciences, Durham, NC.
- #2023 1:45 PM **Roots to Neurons: Evaluating Developmental Neurotoxicity (DNT) Potential of Botanicals Using an *In Vitro* Testing Battery.** Z. Henry, J. Hsieh, C. McPherson, S. Marvel, L. Hall, J. Stanko, and C. Rider. Division of Translational Toxicology, NIEHS, Research Triangle Park, NC.
- #2024 2:00 PM **Emerging Mycotoxins and Fungal Contaminants in Seized Cannabis in Arizona and California, 2023–2024.** P. Romero¹, T. Porter², J. Brunkhorst³, B. Andersano¹, C. Chen⁴, H. Centner², K. Lee², E. Driebe², J. Caporaso², B. Katchmann⁴, M. Rahnema⁵, K. Gwinn⁶, D. Engelthaler⁷, and M. Leung¹. ¹Arizona State University, Glendale, AZ; ²Translation Genomics Research Institute, Flagstaff, AZ; ³Trilogy Analytical Laboratory, Washington, MO; ⁴PathogenDx, Inc., Tucson, AZ; ⁵Tennessee Tech University, Cookeville, TN; ⁶Department of Entomology and Plant Pathology, University of Tennessee, Knoxville, TN; and ⁷Arizona Health Observatory, Arizona State University, Phoenix, AZ.
- #2025 2:15 PM **Case studies: Assuring consumer safety of botanical extracts, as cosmetic ingredients, through conscious safety design, new approach methodologies, and next-generation risk assessment (NGRA).** S. Kim¹, and I. Garcia². ¹Ashland Inc, Lincoln, CA; and ²Ashland Specialties France, Sophia Antipolis, France.

Tuesday, March 24, 4:30 PM to 6:00 PM, Ballroom 6D, Convention Center



Platform Session: Understanding PFAS Toxicity Through Molecular and Developmental Approaches

Chair(s): Marc Pallardy, Université Paris-Saclay, France; and Lisa Truong, Oregon State University.

Abstract

- #2026 4:30 PM **Profiling Human Hepatic Biotransformation Enzyme Gene Expression According to PFAS Exposure.** K. Otersen¹, J. Agudelo Areiza², K. Kosicka-Noworzyn³, L. Aleksunes¹, A. Slitt², and L. Brunetti¹. ¹Rutgers, The State University of New Jersey, Piscataway, NJ; ²University of Rhode Island, Kingston, RI; and ³Poznań University of Medical Sciences, Poznań, Poland.
- #2027 4:45 PM **Per- and Polyfluoroalkyl Substances (PFAS) Antagonize Retinoic Acid Receptor (RAR) and Retinoid X Receptor (RXR) Activity.** M. Hvizdak, and J. N. Lampe. University of Colorado Anschutz Medical Campus, Aurora, CO.
- #2028 5:00 PM **Identification of PFAS-binding proteins by a toxicoproteomic tool.** M. Bondesson¹, S. Somalaju², and S. C. Janga². ¹University of Illinois, Springfield, IL; and ²Indiana University, Indianapolis, IN.
- #2029 5:15 PM **Individual chemical concentration-responses predict neurobehavioral effects of a human-relevant PFAS mixture in larval zebrafish.** R. Owen¹, J. Raab¹, S. Gutsfeld¹, D. Herzke², L. Haug², O. Myhre², and T. Tal¹. ¹Helmholtz Centre for Environmental Research, Leipzig, Germany; and ²Norwegian Institute of Public Health, Oslo, Norway.
- #2030 5:30 PM **PFAS compounds potentiate DNA damage in HEK293T cells and zebrafish embryos at parts per billion exposure levels and below.** S. M. Matthews, B. J. Hinchcliff, C. R. Propper, and M. Salanga. Northern Arizona University, Flagstaff, AZ.
- #2031 5:45 PM **PFAS Exposure Attenuates Tryptophan Metabolism through the Kynurenine Pathway in the Human Placenta.** N. Prout, S. P. Murphy, M. Susiarjo, and T. G. O'Connor. University of Rochester, Rochester, NY.

Awards & Fellowships

Call for 2027 Nominations

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Wednesday, March 25, 9:45 AM to 10:45 AM, Ballroom 6E, Convention Center

PL Platform Session: New Horizons in E&L Methodologies for Medical Devices

Chair(s): Robert Roy, Northland Toxicology Consultants LLC; and Sharmilee Sawant, Becton Dickinson.

Abstract #

- #2032 9:45 AM **Extracting Medical Devices: A Solution for Multilaminates, Soft Polymers, Superabsorbers and Various Adhesives.** *L. Williams, and B. Rollins.* Convatec, Lexington, MA.
- #2033 10:00 AM **Approaches for the Biocompatibility and Toxicological Assessment of Absorbable-Degradable Medical Devices with Extraction Vehicle Solvent Incompatibility.** *C. Parker, and S. Campbell.* Nelson Labs, Salt Lake City, UT.
- #2034 10:15 AM **Target Selection for Leachables Testing Using Historical Data of Pharmaceutical Container Closure Systems.** *Y. Yu-Rice, J. Liu, D. G. Dolan, A. Gallegos, S. B. Bandara, and Y. Nashed-Samuel.* Amgen Inc, Thousand Oaks, CA.
- #2035 10:30 AM **A Novel Alternative to Headspace Sampling for the Detection of Volatile Organic Compounds Utilizing Passive Headspace Concentration.** *K. L. Pacholke¹, S. M. Street¹, M. Giffin², E. K. Long¹, and K. A. Chaffin¹.* ¹Medtronic Inc., Minneapolis, MN; and ²Medtronic Inc., Ogden, UT.

Wednesday, March 25, 11:00 AM to 12:30 PM, Ballroom 6D, Convention Center

PL Platform Session: Use Your Mechanism II: Chemical Exposures Knockin' on Liver's Door

Chair(s): Udayan Apte, University of Kansas Medical Center; and James Luyendyk, Michigan State University.

Abstract #

- #2036 11:00 AM **CN Bio Microphysiological System Platform to Assess Mechanisms of Hepatotoxicity.** *A. Rizzolo¹, V. Bhaskaran¹, Y. Zhang¹, F. Landry¹, C. Garrison¹, A. Fossier², and R. N. Hardwick².* ¹Bristol Myers Squibb, Lawrenceville, NJ; and ²Bristol Myers Squibb, San Diego, CA.
- #2037 11:15 AM **Role of Hepatocyte-Specific Egr1 in Liver Injury and Regeneration After Acetaminophen Overdose.** *D. Paine-Cabrera, D. Robarts, M. Kotulkar, K. Venneman, and U. Apte.* University of Kansas Medical Center, Kansas City, KS.
- #2038 11:30 AM **MRP4 Modulates Hepatic Response to Phenobarbital by Regulating Proliferative and Metabolic Pathways.** *A. P. Laddha, H. Wu, and J. E. Manautou.* University of Connecticut, School of Pharmacy, Storrs, CT.
- #2039 11:45 AM **Silencing hepatic CAPN4 protects against diet-induced MASH in mice.** *L. Walker¹, J. Li¹, C. Vanderpuye¹, P. Muddasani¹, S. Chaudhary¹, S. Taborski¹, J. I. Beier¹, I. Sipula¹, M. Jurczak¹, M. L. Merchant², and G. E. Arteel¹.* ¹University of Pittsburgh, Pittsburgh, PA; and ²University of Louisville, Louisville, KY.

- #2040 12:00 Noon **The Impact of Cyp2e1 KO and Sex on Response to DDC Diet.** K. M. Stayer¹, M. N. Thorton¹, K. R. Driggers¹, M. A. Engevik¹, K. E. Chetta¹, K. Nejak-Bowen², and J. H. Hartman¹. ¹Medical University of South Carolina, Charleston, SC; and ²University of Pittsburgh, Pittsburgh, PA.
- #2041 12:15 PM **Real-Time Hepatic Surveillance in Residents Following the East Palestine, OH Chemical Disaster.** O. P. Okonkwo¹, A. Craig¹, A. M. Monroe¹, K. M. Stello¹, J. P. Fabisiak¹, C. A. Ng¹, O. Ghosh¹, F. R. Schumacher², M. Y. Lichtveld¹, and J. I. Beier¹. ¹University of Pittsburgh, Pittsburgh, PA; and ²Case Western Reserve University, Cleveland, OH.

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Poster Sessions



Poster Sessions are held Monday through Wednesday. Authors are assigned to a specific Poster Session, and on the day of their assigned session, their **posters are displayed all day during ToxExpo hours (9:00 am–4:30 pm)**, allowing attendees to visit the posters at their convenience. **Authors will attend their posters only during the assigned Poster Session time frame.**



Poster Session Schedule at a Glance

MONDAY

All posters on display 9:00 AM to 4:30 PM

Author Attended: 9:15 AM to 11:45 AM		Author Attended: 1:45 PM to 4:15 PM	
• Chemical Threats and Bioterrorism • Clinical and Translational Toxicology • Dermal Toxicology • Immunotoxicity I • Kidney • Liver: <i>In Vivo</i> • Medical Devices I	• Neurodegeneration and Neurodegenerative Diseases I • Neurotoxicity: Developmental • New Approach Methods: General • Risk Assessment I • Stem Cell Biology and Toxicology	• ADME/Toxicokinetics I • Air Pollution Toxicology I • Developmental and Juvenile Toxicology • Developmental Basis of Adult Disease • Educating Future Toxicologists and Communicating with the Public • Endocrine Toxicology • Ethical, Legal, Social, and Historical Issues • Food Safety/Nutrition • Mixtures • Natural Products	• Neurotoxicity: Metals • Neurotoxicity: Pesticides • New Approach Methods: <i>In Vitro</i> I • Pharmaceutical Safety and Drug Discovery • POPs • Reproductive Toxicology I • Respiratory Toxicology I • Tobacco, ENDS, and Smoking-Related Toxicology I

TUESDAY

All posters on display 9:00 AM to 4:30 PM

Author Attended: 9:15 AM to 11:45 AM		Author Attended: 1:45 PM to 4:15 PM	
- AI/Machine Learning I - Air Pollution: Ozone - Air Pollution Toxicology II - Animal Models - Inflammation - Liver: <i>In Vitro</i> - Medical Devices II	- New Approach Methods: Computational - New Approach Methods: <i>In Vitro</i> II - Ocular Toxicology - PFAS I - Risk Assessment II - Safety Assessment: Pharmaceutical—Drug Development I	- Air Pollution: Particulate Matter - Carcinogenesis I - Cardiovascular Toxicology/Hemodynamics - Engineered Nanomaterials - Epidemiology and Public Health - Genotoxicity/DNA Repair - Human Exposure Assessment/Biomonitoring	- Metals I - Neurodegeneration and Neurodegenerative Diseases II - Neurotoxicity: General - New Approach Methods: <i>In Vitro</i> III - Pesticides - Reproductive Toxicology II - Safety Assessment: Non-pharmaceutical - Tobacco, ENDS, and Smoking-Related Toxicology II

WEDNESDAY

All posters on display 9:00 AM to 4:30 PM

Author Attended: 9:15 AM to 11:45 AM		Author Attended: 1:45 PM to 4:15 PM	
- Computational Toxicology - Ecotoxicology - Immunotoxicity II - Metals II - Molecular Toxicology	- PFAS II - Regulation/Policy - Respiratory Toxicology II - Safety Assessment: Pharmaceutical—Drug Development II	- ADME/Toxicokinetics II - AI/Machine Learning II - Bioinformatics - Biomarkers - Carcinogenesis II - Drugs of Abuse - Environmental Toxicology in a Changing Climate	- Genomics, Epigenetics, and Molecular Mechanisms - Micro- and Nanoplastics - Systems Biology and Translational Toxicology - TBA Late-Breaking Sessions



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ToxExpo Floor Plan

Exhibit Hall B, San Diego Convention Center

Poster Board areas are designated by color. Use on-site signage in the ToxExpo to help locate the Poster Board areas by number and color. Use the Route Me feature in the [SOT Event App](#) for help finding a poster on-site.

Poster Board Sections/Numbering:

Blue: A100–D359

Purple: H568–J691

Red: E360–E443

Orange: K692–M847

Green: F444–G567

Icon Key

- Afternoon Refreshment (Mon & Wed)
- Afternoon Refreshment (Tues)
- Morning Coffee (Mon, Tues, & Wed)
- Concessions
- ATM
- Elevator
- Escalator
- First-Aid —AED
- Restrooms
- Stairs
- ToxExpo Locator Map
- Water Station



Poster Board Map by Poster Board Numbers

Exhibit Hall B, San Diego Convention Center

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Poster Board Sections/Numbering:

Blue: A100–D359

Purple: H568–J691

Red: E360–E443

Orange: K692–M847

Green: F444–G567

Red Section Poster Retrieval Table E360–E443

E360–E443 RED SECTION									
E360	E361	E362	E363	E364	E365	E366	E367	E368	E369
E370	E371	E372	E373	E374	E375	E376	E377	E378	E379
E380	E381	E382	E383	E384	E385	E386	E387	E388	E389
E390	E391	E392	E393	E394	E395	E396	E397	E398	E399
E400	E401	E402	E403	E404	E405	E406	E407	E408	E409
E410	E411	E412	E413	E414	E415	E416	E417	E418	E419
E420	E421	E422	E423	E424	E425	E426	E427	E428	E429
E430	E431	E432	E433	E434	E435	E436	E437	E438	E439
E440	E441	E442	E443						

Purple Section Poster Retrieval Table H568–J691

J632–J691 PURPLE SECTION									
J632	J633	J634	J635	J636	J637	J638	J639	J640	J641
J642	J643	J644	J645	J646	J647	J648	J649	J650	J651
J652	J653	J654	J655	J656	J657	J658	J659	J660	J661
J662	J663	J664	J665	J666	J667	J668	J669	J670	J671
J672	J673	J674	J675	J676	J677	J678	J679	J680	J681
J682	J683	J684	J685	J686	J687	J688	J689	J690	J691

C200–C263 | BLUE SECTION

C200	C201	C202	C203	C204	C205	C206	C207
C208	C209	C210	C211	C212	C213	C214	C215
C216	C217	C218	C219	C220	C221	C222	C223
C224	C225	C226	C227	C228	C229	C230	C231
C232	C233	C234	C235	C236	C237	C238	C239
C240	C241	C242	C243	C244	C245	C246	C247
C248	C249	C250	C251	C252	C253	C254	C255
C256	C257	C258	C259	C260	C261	C262	C263

B160–B199 | BLUE SECTION

B160	B161	B162	B163	B164	B165	B166	B167
B168	B169	B170	B171	B172	B173	B174	B175
B176	B177	B178	B179	B180	B181	B182	B183
B184	B185	B186	B187	B188	B189	B190	B191
B192	B193	B194	B195	B196	B197	B198	B199

D264–D359 | BLUE SECTION

D264	D265	D266	D267	D268	D269	D270	D271
D272	D273	D274	D275	D276	D277	D278	D279
D280	D281	D282	D283	D284	D285	D286	D287
D288	D289	D290	D291	D292	D293	D294	D295
D296	D297	D298	D299	D300	D301	D302	D303
D304	D305	D306	D307	D308	D309	D310	D311
D312	D313	D314	D315	D316	D317	D318	D319
D320	D321	D322	D323	D324	D325	D326	D327
D328	D329	D330	D331	D332	D333	D334	D335
D336	D337	D338	D339	D340	D341	D342	D343
D344	D345	D346	D347	D348	D349	D350	D351
D352	D353	D354	D355	D356	D357	D358	D359

A100–A159 | BLUE SECTION

A100	A101	A102	A103	A104	A105	A106	A107
A108	A109	A110	A111	A112	A113	A114	A115
A116	A117	A118	A119	A120	A121	A122	A123
A124	A125	A126	A127	A128	A129	A130	A131
A132	A133	A134	A135	A136	A137	A138	A139
A140	A141	A142	A143	A144	A145	A146	A147
A148	A149	A150	A151	A152	A153	A154	A155
A156	A157	A158	A159				

F444–F507 | GREEN SECTION

F444	F445	F446	F447	F448	F449	F450	F451
F452	F453	F454	F455	F456	F457	F458	F459
F460	F461	F462	F463	F464	F465	F466	F467
F468	F469	F470	F471	F472	F473	F474	F475
F476	F477	F478	F479	F480	F481	F482	F483
F484	F485	F486	F487	F488	F489	F490	F491
F492	F493	F494	F495	F496	F497	F498	F499
F500	F501	F502	F503	F504	F505	F506	F507

G508–G567 | GREEN SECTION

G508	G509	G510	G511	G512	G513	G514	G515
G516	G517	G518	G519	G520	G521	G522	G523
G524	G525	G526	G527	G528	G529	G530	G531
G532	G533	G534	G535	G536	G537	G538	G539
G540	G541	G542	G543	G544	G545	G546	G547
G548	G549	G550	G551	G552	G553	G554	G555
G556	G557	G558	G559	G560	G561	G562	G563
G564	G565	G566	G567				

H568–H631 | PURPLE SECTION

H568	H569	H570	H571	H572	H573	H574	H575
H576	H577	H578	H579	H580	H581	H582	H583
H584	H585	H586	H587	H588	H589	H590	H591
H592	H593	H594	H595	H596	H597	H598	H599
H600	H601	H602	H603	H604	H605	H606	H607
H608	H609	H610	H611	H612	H613	H614	H615
H616	H617	H618	H619	H620	H621	H622	H623
H624	H625	H626	H627	H628	H629	H630	H631

K692–K787 | ORANGE SECTION

K692	K693	K694	K695	K696	K697	K698	K699
K700	K701	K702	K703	K704	K705	K706	K707
K708	K709	K710	K711	K712	K713	K714	K715
K716	K717	K718	K719	K720	K721	K722	K723
K724	K725	K726	K727	K728	K729	K730	K731
K732	K733	K734	K735	K736	K737	K738	K739
K740	K741	K742	K743	K744	K745	K746	K747
K748	K749	K750	K751	K752	K753	K754	K755
K756	K757	K758	K759	K760	K761	K762	K763
K764	K765	K766	K767	K768	K769	K770	K771
K772	K773	K774	K775	K776	K777	K778	K779
K780	K781	K782	K783	K784	K785	K786	K787

M788–M847 | ORANGE SECTION

M788	M789	M790	M791	M792	M793	M794	M795
M796	M797	M798	M799	M800	M801	M802	M803
M804	M805	M806	M807	M808	M809	M810	M811
M812	M813	M814	M815	M816	M817	M818	M819
M820	M821	M822	M823	M824	M825	M826	M827
M828	M829	M830	M831	M832	M833	M834	M835
M836	M837	M838	M839	M840	M841	M842	M843
M844	M845	M846	M847				

Blue Section
Poster Retrieval Table
A100–D359

Green Section
Poster Retrieval Table
F444–G567

Orange Section
Poster Retrieval Table
K692–M847

Exhibit Hall Entrance

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Monday, March 23, 9:15 AM to 11:45 AM, Exhibit Hall B, Convention Center

PS Poster Session: Liver: *In Vivo*

Chair(s): Frederick Ekuban, University of Louisville; and Doris Zane, Gilead Sciences Inc.

Displayed: 9:00 AM–4:30 PM | Author Attended: 9:15 AM–11:45 AM

Abstract

- | | |
|-------|--|
| #3000 | Poster Board Number A100
Cell type-specific effects of microcystin-LR in healthy versus metabolic dysfunction-associated steatotic liver diseased mice. <i>M. R. Call¹, K. D. Hart¹, Y. Zahoor², R. Nault², T. Zacharewski², M. Goedkin³, and J. D. Clarke¹.</i> ¹ Washington State University- Spokane, Spokane, WA; ² Michigan State University, East Lansing, MI; and ³ Rutgers University, New Brunswick, NJ. |
| #3001 | Poster Board Number A101
Sex-specific roles of LKB1 in acetaminophen hepatotoxicity in mice. <i>D. Bhadra, and M. R. McGill.</i> University of Arkansas for Medical Sciences, Little Rock, AR. |
| #3002 | Poster Board Number A102
Hepatic stellate cell-specific HuR deficiency protects female mice from CCl₄-induced liver fibrosis development. <i>Z. Xing¹, E. Jones², N. Eppler², and Y. Zhang².</i> ¹ Northwestern University, Evanston, IL; and ² University of Kansas Medical Center, Kansas City, KS. |
| #3003 | Poster Board Number A103
Combined Liver-Specific Deletion of RNA-Binding Proteins, ZFP36L1 and ZFP36L2, Promote Hepatocarcinogenesis. <i>R. Kumar¹, J. Chen², S. Patia³, and Y. Saini¹.</i> ¹ North Carolina State University, Raleigh, NC; ² Louisiana State University, Baton Rouge, LA; and ³ National Institute of Environmental Health Sciences, Durham, NC. |
| #3004 | Poster Board Number A104
Enhancement of acetaminophen-induced hepatotoxicity in Spontaneously Diabetic Torii-Lepr^{fa} (SDT fatty) rats. <i>K. Kondo, N. Yamada, Y. Suzuki, T. Takahashi, and T. Shoda.</i> Toxicology Research Laboratories, Yokohama Research Center, Shionogi & Co., Ltd., Yokohama, Kanagawa, Japan. Sponsor: <i>E. Spicer</i> |
| #3005 | Poster Board Number A105
Cholesterol mediated endotoxic liver injury is enhanced by sitagliptinin Sprague-Dawley rats. <i>T. Pala, G. Breaux Jr, R. Pathak, A. Kumar, and S. N Murthy.</i> Sounthern University A & M, Baton Rouge, LA. |
| #3006 | Poster Board Number A106
Application of immunofluorescence for analysis of zone-selective hepatic steatosis driven by perfluorooctane sulfonate (PFOS) and 2,3,7,8-tetrachlorodibenzo-<i>p</i>-dioxin (TCDD). <i>J. A. Mickel, A. P. Gilbert, K. Yuan, S. Shrestha, Y. Zahoor, and R. Nault.</i> Michigan State University, East Lansing, MI. |

- #3007 **Poster Board Number A107**
Potential mechanisms of hepatic Cyp2e1 over-expression in diet-induced obesity mouse model, associated with aggravated acetaminophen-induced liver injury. I. Park¹, S. Cho¹, N. Kim¹, E. Lee¹, H. Jo¹, E. Choi¹, Y. Jeon¹, J. Che², and J. Yun¹. ¹Laboratory of Veterinary Toxicology, College of Veterinary Medicine and Research Institute for Veterinary Science, Seoul National University, Seoul, Korea, Republic of; and ²Biomedical Center for Animal Resource Development, Seoul National University College of Medicine, Seoul, Korea, Republic of.
- #3008 **Poster Board Number A108**
18 β -glycyrrhetic acid regulates cuproptosis by p65/STAT3-STEAP4 axis to ameliorate acetaminophen-induced liver injury. M. Lei^{1,2}, J. Chen^{1,2}, and L. Gong^{1,2}. ¹Center for Drug Safety Evaluation and Research, State Key Laboratory of Drug Research, Shanghai Institute of Materia Medica, Chinese Academy of Sciences, Shanghai, China; and ²Zhongshan Institute for Drug Discovery, Shanghai Institute of Materia Medica, Chinese Academy of Sciences, Zhongshan, China.
- #3009 **Poster Board Number A109**
Delta-8-tetrahydrocannabinol mitigates ConA-induced hepatotoxicity through epigenetic regulation of immune dynamics. H. Hamida, M. Palrasu, A. Marudamuthu, X. Yang, P. Nagarkatti, and M. Nagarkatti. University of South Carolina School of Medicine, Columbia, SC.
- #3010 **Poster Board Number A110**
Sex-Dependent Hepatotoxicity of Trichloroethylene in Humanized PPAR α Mice Fed a Western Diet. A. Ekuban¹, P. Ames¹, F. A. Ekuban¹, J. Luo¹, O. E. Bolatimi¹, Y. Hua¹, M. Iyer¹, C. Gorga¹, J. Hardesty¹, J. Schlezinger², B. Wahlang¹, M. Cave¹, and W. H. Watson¹. ¹University of Louisville, Louisville, KY; and ²Boston University, Boston, MA.
- #3011 **Poster Board Number A111**
Inhibition of Apoptosis-Mediated Kidney Cell Death Improves Survival Following Acetaminophen Overdose. F. Ahamed, H. Jaeschke, and A. Ramachandran. University of Kansas Medical Center, Kansas City, KS.
- #3012 **Poster Board Number A112**
Rust Belt Toxicants Amplify Diet-Induced Hepatotoxicity in Mice. H. Arbore, H. Siddiqui, S. A. Heinig, J. Li, N. Price, Z. Zimmerman, S. Yuan, S. Chaudhary, N. Kitano, G. E. Arteel, A. P. Sanders, and J. I. Beier. University of Pittsburgh, Pittsburgh, PA.
- #3013 **Poster Board Number A113**
Utilizing Clinically Approved Epidermal Growth Factor Receptor Inhibitors for the Treatment of Acetaminophen-Induced Liver Injury. G. A. Williams, S. Jain, R. Mukherjee, A. V. Orr, and B. Bhushan. University of Pittsburgh, Pittsburgh, PA.
- #3014 **Poster Board Number A114**
Pharmacological inhibition of MET impairs hepatocyte regeneration in a murine model of acetaminophen-induced liver injury. S. Jain, R. Mukherjee, G. A. Williams, A. Orr, and B. Bhushan. University of Pittsburgh, Pittsburgh, PA.
- #3015 **Poster Board Number A115**
Hepatic stellate cell-specific HuR deficiency protects mice from CCl₄-induced liver fibrosis development. E. Jones, N. Eppler, Z. Xing, and Y. Zhang. University of Kansas Medical Center, Kansas City, KS.
- #3016 **Poster Board Number A116**
Plasminogen and plasminogen deficiency in acetaminophen-induced acute liver injury. D. Banerjee¹, Z. Wei¹, A. Newberry¹, A. W. Strilchuk², F. Ferrareso³, C. Kastrup³, and J. P. Luyendyk¹. ¹Michigan State University, East Lansing, MI; ²University of British Columbia, Vancouver, BC, Canada; and ³Versiti Blood Research Institute, Milwaukee, WI.

- #3017 **Poster Board Number** **A117**
FXIII-B deficiency increases APAP-induced liver injury without impacting hepatic fibrin(ogen) crosslinking. C. D. Schneider¹, Z. Wei¹, K. Kangro², Y. Sang², A. S. Wolberg², and J. P. Luyendyk¹. ¹Michigan State University, East Lansing, MI; and ²University of North Carolina, Chapel Hill, NC.
- #3018 **Poster Board Number** **A118**
Non-hepatocellular tissue factor activates the coagulation cascade following toxicant-induced liver injury. A. K. Patel¹, G. E. Capece¹, B. Hazel¹, T. Roychowdhury¹, N. A. Mac¹, D. Hu¹, K. Baker², M. T. Fernandes-Fonseca², Z. Wei², A. T. Sachetto³, J. P. Luyendyk², N. Mackman³, and L. G. Poole¹. ¹Rutgers University, Piscataway, NJ; ²Michigan State University, East Lansing, MI; and ³University of North Carolina at Chapel Hill, Chapel Hill, NC.
- #3019 **Poster Board Number** **A119**
Hepatoprotective effect of *Cornus kousa* F. Buerge ex Miquel on APAP-induced liver injury mouse model. H. Lee^{1,2}, S. Heo^{1,2}, S. Cho³, D. Choi², and C. Choi^{1,2,3}. ¹Department of Integrative Biological Sciences & BK21 FOUR Educational Research Group for Age-Associated Disorder Control Technology, Chosun University, Gwangju, Korea, Republic of; ²Institute of Well-Aging Medicare & Chosun University G-LAMP Project group, Chosun University, Gwangju, Korea, Republic of; and ³Department of Biomedical Science, Chosun University, Gwangju, Korea, Republic of.

Monday, March 23, 9:15 AM to 11:45 AM, Exhibit Hall B, Convention Center

PS Poster Session: Kidney

Chair(s): Brian Cummings, Wayne State University; and Gary Rankin, Marshall University.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 9:15 AM–11:45 AM

Abstract #

- #3020 **Poster Board Number** **A121**
Validating Untargeted Discovery of Nephrotoxicity Biomarkers Using mRNA Profiling in Murine Kidneys and Human Kidney Injury Datasets. J. Yang¹, X. Wen¹, L. Oppong¹, C. Kim¹, E. Jaimes², Y. Zhuang³, M. Joy³, and L. Aleksunes^{1,4}. ¹Rutgers University, New Brunswick, NJ; ²Memorial Sloan Kettering Cancer Center, New York City, NY; ³University of Colorado, Aurora, CO; and ⁴Environmental and Occupational Health Sciences Institute, Piscataway, NJ.
- #3021 **Poster Board Number** **A122**
Deciphering Kidney Responses to Airborne Fine Particulate Matter Exposure Using Systems Bioinformatics. T. Krsmanovic¹, K. Jankovic¹, A. Surla¹, P. Stojakovic¹, D. Dragovic¹, G. Apic¹, and R. B. Russell². ¹Metisox, Cambridge, United Kingdom; and ²Heidelberg University, Heidelberg, Germany.
- #3022 **Poster Board Number** **A123**
THY1/CD90 as a Novel Biomarker of Subclinical Drug-Induced Kidney Injury in Humans. X. Wen¹, J. Yang¹, C. Kim¹, L. Thompson², Y. Zhuang², J. Edgar³, M. Joy², and L. Aleksunes^{1,4}. ¹Rutgers University, Piscataway, NJ; ²University of Colorado, Aurora, CO; ³Memorial Sloan Kettering Cancer Center, Piscataway, NY; and ⁴Environmental and Occupational Health Sciences Institute, Piscataway, NJ.

- #3023 **Poster Board Number A124**
***In vitro* evaluation of drug-induced kidney injury using cell painting assay in 2D and 3D kidney models.** X. Du, Z. Wu, J. Xu, and F. He. Pharmaron Beijing Co., Ltd., Beijing, China.
 Sponsor: S. Luo
- #3024 **Poster Board Number A125**
Retrograde Ureteral Catheterization for Renal Pelvis Access. A Feasibility Study in Cynomolgus Macaques. K. Hokamura, M. Kosugi, M. Matsushita, M. Amano, R. Fujii, A. Hama, and T. Natsume. Hamamatsu Pharma Research, Inc., Hamamatsu, Japan. Sponsor: A. Fujiwara
- #3025 **Poster Board Number A126**
Decreased Transport but Increased Repair Capacity in Model of Cisplatin Nephrotoxicity. M. Ljubojevic¹, V. Micek¹, M. Pavic Vulinovic², D. Breljak¹, J. Madunic¹, and I. Vrhovac Madunic¹.
¹Institute for Medical Research and Occupational Health, Zagreb, Croatia; and ²University of Zagreb, Faculty of Veterinary Medicine, Zagreb, Croatia. Sponsor: I. Vrhovac Madunic, EUROTOX
- #3026 **Poster Board Number A127**
Differentiating Hepatic and Renal Toxicity Reveals Cyp-Independent Mechanisms of Acetaminophen-Induced Acute Kidney Injury. Y. Etemadi, T. A. Fields, J. Akakpo, A. Ramachandran, and H. Jaeschke. University of Kansas Medical Center, Kansas City, KS.
- #3027 **Poster Board Number A128**
A proximal tubule on-chip model for nephrotoxicity and drug safety evaluation. P. Zamprogno, G. Raggi, N. Albrecher, L. L. De Maddalena, L. Froment, J. Kamper, A. Hugli, and N. Hobi. AlveoliX AG, Swiss Organs-On-Chip, Bern, Switzerland. Sponsor: A. Stucki
- #3028 **Poster Board Number A129**
Exosomes Secreted from Human Proximal Tubular Cells are Sources of Biomarkers for Exposure to Nephrotoxic Environmental Chemical and Drugs. L. H. Lash¹, M. Gargano¹, P. M. Stemmer², K. Lowran², R. Rosati², X. Hu³, and D. P. Jones³. ¹Wayne State University School of Medicine, Detroit, MI; ²Wayne State University, Detroit, MI; and ³Emory University School of Medicine, Atlanta, GA.
- #3029 **Poster Board Number A130**
1,4-Dichlorobenzene Nephrotoxicity *In Vitro*: Effect of Electron-withdrawing Groups. G. O. Rankin, L. Tran, J. Sherif, J. Sherif, C. Cole, M. Jarrell, M. McCormick, and D. K. Anestis. Marshall University, Huntington, WV.
- #3030 **Poster Board Number A131**
Menthol Induced Decline in Mitochondrial Function and Autophagy in Renal Epithelial Cells. M. Valentovic, K. Brown, and E. McGuffey. Marshall University School of Medicine, Huntington, WV.
- #3031 **Poster Board Number A132**
Blocking complement as a preventative measure for kidney ischemia reperfusion injury: Insights from a human kidney-on-a-chip study. L. Gijzen¹, L. Tool¹, E. Haspeslagh², R. Annida¹, J. Delaere², R. van Vught¹, K. Budding², E. Hack², and I. van de Walle². ¹MIMETAS B.V, Oegstgeest, Netherlands; and ²Argenx B.V, Zwijnaarde, Belgium. Sponsor: S. Kundu
- #3032 **Poster Board Number A133**
Evaluating the NRF2-KEAP1 Responses of Melatonin in Human Kidney Proximal Tubule Cells. T. Xie, C. Kim, X. Wen, L. Aleksunes, and L. Brunetti. Rutgers, The State University of New Jersey, Piscataway, NJ.

- #3033 **Poster Board Number A134**
Silica deposits in drinking water and renal biopsies from a Mexico hotspot region of Chronic Kidney Disease of Unknown etiology (CKDu). L. D. Calvimontes Barrientos¹, S. Brindley¹, S. Santos¹, C. A. Roncal², M. Madero³, R. J. Johnson², J. M. Arreola Guerra⁴, and J. M. Brown¹. ¹Department of Pharmaceutical Sciences, Skaggs School of Pharmacy and Pharmaceutical Sciences, University of Colorado, Anschutz Medical Campus, Aurora, CO; ²Division of Renal Diseases and Hypertension, School of Medicine, University of Colorado, Anschutz Medical Campus, Aurora, CO; ³Department of Medicine, Division of Nephrology, Instituto Nacional de Cardiología-Ignacio Chavez, Mexico City, Mexico, Mexico City, Mexico; and ⁴Department of Nephrology, Hospital Centenario Miguel Hidalgo, Aguascalientes, Mexico, Aguascalientes, Mexico.
- #3034 **Poster Board Number A135**
Modified Albumin Elicits AKI-Like Transcriptomic Programs in Human Proximal Tubule Microphysiological Systems. A. Mahadeo, T. Bammler, J. MacDonald, C. Yeung, S. Akilesh, J. Himmelfarb, and E. Kelly. University of Washington, Seattle, WA.
- #3035 **Poster Board Number A136**
Spatially Resolved MultiOmics Reveals Localized Renal Responses to Cisplatin Nephrotoxicity. J. Akakpo¹, E. Abbott¹, B. L. Woolbright¹, A. Ramachandran¹, R. G. Schnellmann², D. P. Wallace¹, and J. Taylor¹. ¹University of Kansas Medical Center, Kansas City, KS; and ²University of Arizona, Tucson, AZ.
- #3036 **Poster Board Number A137**
Concentration-Dependent Modulation of Mitochondrial Health by Vancomycin: Potential Impact of Melatonin. M. Anthony, C. Kim, L. Aleksunes, and L. Brunetti. Rutgers University, Piscataway, NJ.
- #3037 **Poster Board Number A138**
AI-Driven Histology and Urinary Biomarkers to Assess Adverse Effect of Heat Stress on the Kidney in a Rat Model. J. Zhou¹, D. Verdugo¹, S. Xiang², V. Stevenson¹, Y. Yang², K. Greenbergs¹, J. Escandor¹, A. Alli¹, N. Denslow¹, and C. Vulpe¹. ¹University of Florida, Gainesville, FL; and ²University of Georgia, Athens, GA.
- #3038 **Poster Board Number A139**
Novel Role of Lipins in Aminoglycoside-Induced Renal Cell Death. C. M. Henry, and B. Cummings. Wayne State University, Detroit, MI.
- #3039 **Poster Board Number A140**
Organophosphate Flame Retardants Induce Renal Cell Proliferation *In Vitro*. C. E. Fillmore, and B. S. Cummings. Wayne State University, Detroit, MI.

Monday, March 23, 9:15 AM to 11:45 AM, Exhibit Hall B, Convention Center

PS Poster Session: Clinical and Translational Toxicology

Chair(s): Aditya Joshi, Texas A&M University.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 9:15 AM–11:45 AM

Abstract #

- #3040 **Poster Board Number A142**
Multiple doses of elesclomol-copper is beneficial and does not trigger cuproptosis in a mouse model of Menkes disease. K. P. Maremanda^{1,2}, and V. M. Gohil¹. ¹Texas A&M University, College Station, TX; and ²University of Oklahoma, Oklahoma City, OK.

#3041	Poster Board Number A143 Assay-Dependent Artifactual Prolongation of Activated Partial Thromboplastin Time (APTT) Observed in Cynomolgus Monkeys. <i>K. Ishida</i> ¹ , R. Boyer ¹ , G. de Hart ¹ , S. Brennan ¹ , P. Chitiyala ¹ , E. Miller ¹ , C. Orciani ² , C. Cluzel ² , B. Hock ¹ , S. J. Zooq ¹ , and E. Koo ¹ . ¹ BioMarin, San Rafael, CA; and ² Charles River Laboratories, Laval, QC, Canada.
#3042	Poster Board Number A144 From Monospecific to Bispecific: Comparative Safety of T-Cell Engagers and Dual-Receptor BsAbs Versus Monospecific Agents Using Clinical Outcomes and FAERS Data. A. Nielsen ¹ , D. Thomas ¹ , and O. Barberan ² . ¹ Elsevier, Inc., San Diego, CA; and ² Elsevier, Inc., Amsterdam, Netherlands. Sponsor: D. Thomas, International Society for the Study of Xenobiotics
#3043	Poster Board Number A145 Corrosive Exposures in Clinical Toxicology: Poison Prevention Strategies for Hydrofluoric Acid. <i>T. Dodd-Butera</i> ¹ , and H. Li ² . ¹ Azusa Pacific University, Azusa (San Diego Regional Campus), CA; and ² Azusa Pacific University, Azusa, CA.
#3044	Poster Board Number A146 Balancing Degraders Promise with Safety Challenges. K. Oberoi. Clarivate, Ann Arbor, MI. Sponsor: <i>R. Tanguay</i>
#3045	Poster Board Number A147 Cigarette Smoking, Cytokines, and Immune Evasion in Lung Cancer. <i>M. Shabrang</i> , J. Akulian, and B. Vincent. University of North Carolina at Chapel Hill, Chapel Hill, NC.
#3046	Poster Board Number A148 A second generation PFAS, GenX, Induces Astrocytic Activation and Metabolic Defects. A. Abu Salah ¹ , N. Boonpraman ² , D. Kim ² , I. Mhatre-Winters ³ , Y. Han ³ , P. Reina-Gonzalez ¹ , A. Anchan ¹ , J. R. Richardson ³ , S. R. Sammi ² , and S. Sarkar ¹ . ¹ University of Rochester, Rochester, NY; ² Michigan State University, Michigan, MI; and ³ University of Georgia, Athens, GA.
#3047	Poster Board Number A149 First clinical case of N-pyrrolidino protonitazene intoxication in Brazil: detection and quantification in serum by micro-QuEChERS and LC-MS/MS. <i>K. de Oliveira Souza</i> , R. Lanaro, L. Costalonga Rodrigues, and J. da Costa. Universidade Estadual de Campinas, Campinas, Brazil.
#3048	Poster Board Number A150 In silico-driven mechanistic insights into the increased sensitivity of canines to drug-induced seizures in nonclinical safety studies. <i>L. Talecki</i> , A. Mogas Barcons, J. Ferguson, Z. Farooq, H. Dixon, S. Tomlinson, L. Zolkiewski, K. Rockley, M. Morton, and R. Roberts. Apconix, Alderly Edge, Cheshire, United Kingdom.
#3049	Poster Board Number A151 Screening Novel Radioprotective Compounds for Salivary Glands Using Microbubble Chip Array. <i>R. Kato</i> ¹ , C. Y. Chen ² , J. Mereness ¹ , and L. DeLouise ¹ . ¹ University of Rochester School of Medicine and Dentistry, Rochester, NY; and ² University of Rochester, Rochester, NY.
#3050	Poster Board Number A152 Dual roles of the Ah receptor (AHR) ligand 6-Formylindolo[3,2-b]carbazole (FICZ) in the induction of pulmonary cytochrome P450 (CYP)1A1 by hyperoxia, and the attenuation of hyperoxic lung injury in mice In Vivo. <i>B. Moorthy</i> , D. Narke, L. Wang, C. Chu, and W. Jiang. Baylor College of Medicine, Houston, TX.
#3051	Poster Board Number A153 Advanced 3D iPSC-derived cardiac model for improved drug-induced cardiotoxicity assessment. S. Swamy ¹ , S. Dhepe ¹ , A. R. Ribeiro ² , M. Seguret ² , K. Rajendran ¹ , A. Khedher ² , C. Cerveau ² , P. Bhanushali ¹ , A. Khanna ¹ , and V. Pitke ¹ . ¹ Yashraj Biotechnology Ltd, Navi Mumbai, India; and ² 4DCell, Montreuil, France.

- #3052 **Poster Board Number** **A154**
Investigation of the application of Hemoglobind™ to improve detection of nitrate in hemolyzed ocular fluid samples. L. Mejia-Garcia, and C. Wilson-Frank. Purdue University, West Lafayette, IN.
- #3053 **Poster Board Number** **A155**
Evaluation of Mutational Signatures in Rat Tumors Resulting from Chronic Inhalation Exposure to Vinyl Chloride. A. Thakar¹, K. Kanchi¹, A. Boone¹, A. Brooks¹, J. Li¹, T. Ton¹, R. Cortes¹, G. Roberts¹, R. Spurbeck², R. Sills¹, E. Tibaldi³, D. Mandrioli³, J. Li¹, and A. Pandiri¹. ¹The National Institute of Environmental Health Sciences, Durham, NC; ²Battelle, Columbus, OH; and ³Ramazzini Institute, Bologna, Italy. Sponsor: C. Rider
- #3054 **Poster Board Number** **A156**
Catalytic Topoisomerase II Inhibitors Potentiate the Genotoxicity of Etoposide. M. Ooka¹, J. Zhao¹, K. Hirota², T. Abe³, and M. Xia¹. ¹National Center for Advancing Translational Science, Rockville, MD; ²Tokyo Metropolitan University, Tokyo, Japan; and ³Tohoku Medical and Pharmaceutical University, Sendai, Japan.
- #3055 **Poster Board Number** **A157**
Sinonasal Cytokine Patterns as Biomarkers of Gulf War Exposures: A VAGLAHS veteran population study. M. Thapa^{1,2}, B. S. Gowda¹, S. K. Basak¹, E. Srivatsan^{3,1}, M. T. Labibi², A. Lim¹, W. Chen¹, M. Cappelletti⁴, K. Sullivan⁵, N. Klimas⁶, and J. T. Lee^{1,7}. ¹Greater Los Angeles Veterans Affairs Healthcare Administration, Los Angeles, CA; ²David Geffen School of Medicine, UCLA, Los Angeles, CA; ³UCLA, Department of Surgery, Los Angeles, CA; ⁴Department of Pathology, UCLA, Los Angeles, CA; ⁵Department of Public Health, Boston University, Boston, MA; ⁶Nova Southeastern University School of Medicine, Ft Lauderdale, FL; and ⁷Head and Neck Surgery, UCLA, Los Angeles, CA.
- #3056 **Poster Board Number** **A158**
Pathology of PD-L1 blocking therapeutics in three immune-humanized mouse models. R. E. Becker¹, K. L. Gabrielson², and K. E. Howard¹. ¹USFDA, Silver Spring, MD; and ²Johns Hopkins University, Baltimore, MD.

Monday, March 23, 9:15 AM to 11:45 AM, Exhibit Hall B, Convention Center

PS Poster Session: Medical Devices I

Chair(s): Rachel Chang, Gradient; and Harish Chevva, JUUL Labs Inc.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 9:15 AM–11:45 AM

Abstract #

- #3057 **Poster Board Number** **B160**
How to use Retention Index information (NIST) to support Mass Spectral based identifications in GC/MS. P. Christiaens. Nelson Labs, Heverlee, Belgium. Sponsor: T. Rollins
- #3058 **Poster Board Number** **B161**
Exhaustive Extractions are Exhausting: Justification of Changes in Medical Device Manufacturing through Materials Science and Toxicology. R. Bader. Cambridge Polymer Group, Woburn, MA. Sponsor: S. Street
- #3059 **Poster Board Number** **B162**
Can Material Evaluations Accurately Predict Irritation Outcomes for Medical Devices? C. M. Ruch, and P. G. Smiraldo. NAMSA, Northwood, OH.

#3060	Poster Board Number B163 A comparative regulatory analysis of substance-based medical device risk classification in ASEAN and EU. N. U. Hashim ¹ , J. Chen ² , N. Adjimatera ² , and S. Kwon ¹ . ¹ National University of Singapore, Singapore, Singapore; and ² Reckitt Benckiser, Singapore Pte Ltd, Singapore, Singapore.
#3061	Poster Board Number B164 Scientific Confidence in the Monocyte Activation Test: A Human-Relevant Pyrogenicity Test for Medical Devices. A. Bettmann, J. Brown, and A. J. Clippinger. PETA Science Consortium International e.V., Stuttgart, Germany.
#3062	Poster Board Number B165 Case Based Insights When Assessing Carcinogenicity Risk in Biological Safety Evaluation. X. Dai, J. Weng, S. Wu, M. Lewis, E. Rufer, R. Shulfer, and M. Kamberi. Abbott Laboratories, St. Paul, MN.
#3063	Poster Board Number B166 The Influence of Extractable and Leachable (E&L) Study Design on Biocompatibility Outcomes of Skin Patch Devices used in Ambulatory ECG Monitoring. G. Cnossen ¹ , K. Chatani ² , R. Koning ² , R. Nguyen ³ , and J. Wong ³ . ¹ Philips, Cambridge, MA; ² Philips, Drachten, Netherlands; and ³ Philips, Murrysville, PA.
#3064	Poster Board Number B167 A Proposed Framework for the Useful Life Evaluation of Breathing Gas Pathway Medical Devices: An Integral Component of Whole Lifecycle Assessments for Biocompatibility. J. Wong, R. Nguyen, S. Zheng, and D. Faulk. Philips, Murrysville, PA.
#3065	Poster Board Number B168 Chemical Class Emission Trends of Volatile Organic Substances Emitted from Breathing Gas Pathway Devices under ISO 18562-3:2024. K. D. Shimshock, D. Buchanan, R. Nguyen, M. Stang, and J. Wong. Philips Respironics, Murrysville, PA.
#3066	Poster Board Number B169 Determination of a medical device parenteral non-cancer TTC based on <i>in silico</i> ADME. T. Builee ¹ , S. Bond ² , R. Bachorz ³ , V. Lukacova ³ , V. Levelut ⁴ , M. A. Hahn ⁵ , and M. K. Peterson ⁶ . ¹ Solventum, Saint Paul, MN; ² Jordi Labs, Mansfield, MA; ³ Simulation Plus, Inc., Research Triangle Park, NC; ⁴ NAMSA, Chasse-sur-Rhône, France; ⁵ Eurofins Medical Device Services, Lancaster, PA; and ⁶ Gradient, Leavenworth, WA.
#3067	Poster Board Number B170 Identification of Chemicals of Endocrine and Reproductive Concern in Medical Device Extractables and Leachables Datasets. C. Meakin, and L. Borton. Gradient, Boston, MA.
#3068	Poster Board Number B171 A Systematic Approach to Evaluating the Biological Safety of Reusable Medical Devices: A Case Study on Vascular Surgical Tool. G. Hung, K. Das, and L. Dao. Getinge Center of Excellence Advanced Materials Science and Biocompatibility, Merrimack, NH. Sponsor: G. Hung, Society for Risk Analysis
#3069	Poster Board Number B172 Importance of extraction vessel shape in medical device testing: a GeneTox case report. A. A. Aggarwal, E. Meco, J. Krumpholz, S. Gollamudi, H. Fayez, and M. Brady. Labcorp, Bedford, MA. Sponsor: S. Gollamudi, American College of Toxicology
#3070	Poster Board Number B173 Inorganic Gas and Particulate emissions from Medical devices evaluated under ISO 18562. J. Hummel. Resmed, Sydney, Australia.

#3071	Poster Board Number B174 Relevance on the Dose-Based Threshold of 120 µg/d for non-targeted analyses of non-absorbable implantable medical devices based on ISO 10993-17:2023 framework. A. DibaoDina ¹ , and P. Smiraldo ² . ¹ NAMSA Clinical and Consulting Services GmbH, Obernburg am Main, Germany; and ² NAMSA, Northwood, OH.
#3072	Poster Board Number B175 <i>In vitro</i> sensitization assessment of medical device extracts: Prevalidation results of GARDskin Medical Device for potential inclusion in ISO 10993-10. A. Forreryd, P. Alfrén, R. Gradin, and H. Johansson. Senzagen AB, Lund, Sweden.
#3073	Poster Board Number B176 Mitigating Contamination in Cytotoxicity Assays from Non-Sterile Medical Devices. J. Brees ¹ , N. Harp ² , and B. Pate ³ . ¹ Medline, Hamersville, OH; ² Medline, Batavia, OH; and ³ Medline, Northfield, IL.
#3074	Poster Board Number B177 Applicability and Performance of Open-Source and Paid-Access Computational Genotoxicity QSAR Models for Medical Device-Derived Extractables. A. Luthin, S. Thomas, A. Holth, O. Kinsky, A. Stornetta, and S. Huebert. Boston Scientific, Saint Paul, MN.
#3075	Poster Board Number B178 Solvent selection for leachables test in the condensate for gas pathway masks. G. Chandrayan ¹ , P. Duineveld ² , D. Faulk ³ , J. Wong ³ , and R. Nguyen ³ . ¹ Philips, Pune, India; ² Philips, Drachten, Netherlands; and ³ Philips, Murrysville, PA.
#3076	Poster Board Number B179 Temporal Profiling of VOS Emissions: Accelerated Aging and Reprocessing of Breathing Gas Path Medical Devices for Biological Safety Assessments. S. Zheng, R. Nguyen, and D. Faulk. Philips, Murrysville, PA.
#3077	Poster Board Number B180 PFAS-Free Coverlay Material Change Assessment in SpO2 Sensors: Biological Equivalence via E&L Study. M. Mo ¹ , K. Chatani ² , R. Koning ² , G. Cnossen ² , and J. Wong ³ . ¹ Philips, Cambridge, MA; ² Philips, Drachten, Netherlands; and ³ Philips, Murrysville, PA.
#3078	Poster Board Number B181 Alternative Positive Control Material for the XTT and MTT Cytotoxicity Test ISO 10993-5 for Medical Devices. C. Kalimtzis, R. Koch, M. Bobiak, and G. DeGeorge. MB Research Laboratories, Spinnerstown, PA.
#3079	Poster Board Number B182 Passivation, Electropolishing and Anodization as Surface Residue Mitigation Steps for Biocompatibility Risk Management in Medical Device Manufacturing—A Retrospective Analysis. K. Godlewska ¹ , C. Graham ² , M. Frohbergh ³ , S. Kalyan ³ , R. Viswanadha ² , and P. Hasgall ¹ . ¹ Zimmer Switzerland Manufacturing GmbH, Winterthur, Switzerland; ² Zimmer Inc., Warsaw, IN; and ³ Exponent, Menlo Park, CA.
#3080	Poster Board Number B183 Worst-case Selection in Medical Device Toxicity Risk Assessment. S. Wu, J. Hakimi, S. Dubin, J. Weng, M. Lewis, S. Mimche, J. Wilsey, S. Citrowske, E. Rufer, R. Shulfer, and M. Kamberi. Abbott Laboratories, St. Paul, MN.
#3081	Poster Board Number B184 Toxicological Risk Based Particulate Acceptance Criteria for Medical Device Manufacturing. S. Parvez, A. Sharma, J. Tessier, and S. Dutta. Intuitive Surgical, Sunnyvale, CA.

#3082	Poster Board Number B185 Tailored E&L Strategies for Hyaluronic Acid Medical Devices: A Foundation for Toxicological Risk Assessment. H. Gehrke ¹ , S. Baur ¹ , S. Holzmayer ¹ , and M. Doerkes ² . ¹ Eurofins Medical Device Testing Munich GmbH, Robert Koch Straße 3a, Munich/Planegg, Germany; and ² Eurofins Medical Device Consulting Services GmbH, Robert Koch Straße 3a, Munich/Planegg, Germany. Sponsor: H. Gehrke, EUROTOX
#3083	Poster Board Number B186 Setting the Benchmark for Hemocompatibility: Advanced Testing for Transfusion Devices according to ISO 1135. T. Gehring, M. Müller, and H. Gehrke. Eurofins Medical Device Testing Munich GmbH, Robert-Koch-Straße 3a, Planegg, Munich, Germany. Sponsor: H. Gehrke, EUROTOX
#3084	Poster Board Number B187 Refining Medical Device Chemical Safety Risk for Pediatric Patients: A Theoretical Case Study Considering Children Growth Trajectory. X. Dai, Z. Xia, J. Weng, E. Rankin, C. LaSalle, S. Zhang, E. Rufer, S. Citrowske, R. Shulfer, and M. Kamberi. Abbott Laboratories, St. Paul, MN.
#3085	Poster Board Number B188 Defining the Chemical Space of Extractable and Leachables Found in Medical Devices. C. S. Barousse, C. Chatman, D. Patwardhan, M. Eppihimer, and A. Powell. US FDA, Silver Spring, MD.
#3086	Poster Board Number B189 Enhanced Chemical Identification of Medical Device Extractables and Leachables Using Ion Mobility-High Resolution Mass Spectrometry. M. Annunziato, R. Rathnayake, K. Patel, J. Kim, E. Miller, and S. Wickramasekara. US Food and Drug Administration, Silver Spring, MD. Sponsor: B. Oktem
#3087	Poster Board Number B190 Solvent properties and the effect on extraction kinetics from silicone rubber. J. Hill, M. Alam, and K. Sapkota. US FDA, Silver Spring, MD. Sponsor: A. Powell

Monday, March 23, 1:45 PM to 4:15 PM, Exhibit Hall B, Convention Center

PS Poster Session: Neurotoxicity: Metals

Chair(s): Ahmed Abdelmoneim, Louisiana State University; and Kim Zaccaria, SRC Inc.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 1:45 PM–4:15 PM

Abstract #

#3088	Poster Board Number C200 Developmental Lead Exposure and Sex-Specific Glutamatergic Pathways Underlying Convergent Anxiety-Like Phenotypes in Adult Zebrafish. S. J. Bhuiya, W. A. Tamagno, and J. Freeman. Purdue University, West Lafayette, IN.
#3089	Poster Board Number C201 Developmental Pb exposure affects neurotransmitters distributions in the brain exerting late-in-life neurotoxic effects. W. A. Tamagno, G. Sumner, N. Tucci, K. S. Chelladurai, C. R. Ferreira, and J. L. Freeman. Purdue University, West Lafayette, IN.
#3090	Poster Board Number C202 Inflammation-induced metal dyshomeostasis increased susceptibility to manganese toxicity in HMC-3 microglia cells. K. A. Shapiro ¹ , A. T. Kramer ¹ , and F. E. Harrison ^{2,1} . ¹ Vanderbilt University, Nashville, TN; and ² Vanderbilt University Medical Center, Nashville, TN.

- #3091 **Poster Board Number C203**
Regional Kinetics of Human Brain Manganese Clearance Measured by Quantitative Magnetic Resonance Imaging Relaxometry. Q. Wang¹, C. Hsu^{1,2}, H. Monsivais^{1,3}, C. Knight¹, and U. Dydak¹. ¹Purdue University, West Lafayette, IN; ²Hospital of the University of Pennsylvania, Philadelphia, PA; and ³The University of Texas MD Anderson Cancer Center, Houston, TX.
- #3092 **Poster Board Number C204**
Manganese Exposure Reveals Sex Differences in Stress-Induced Drug Seeking. N. K. Aregbe¹, and F. Harrison². ¹Vanderbilt University, Nashville, TN; and ²Vanderbilt University Medical Center, Nashville, TN.
- #3093 **Poster Board Number C205**
Mixed Metal Oxide Exposure Drives Astrocytic Activation *In Vitro* and *In Vivo*. A. Anchan¹, R. Strazdins², A. Shah¹, P. Reina-Gonzalez¹, A. Abu-Salah¹, M. Sobolewski-Terry¹, and S. Sarkar¹. ¹University of Rochester School of Medicine & Dentistry, Rochester, NY; and ²Queensland University of Technology, Brisbane City, Australia.
- #3094 **Poster Board Number C206**
Low Concentrations of Hexavalent Chromium in Drinking Water Induce Oxidative Damage in Endothelial Cells: Using a Toxic Aging Coin to Assess Cr(VI) Impacts on the Blood-Brain Barrier. W. Buchanan¹, S. T. Vielee¹, H. Lu¹, and J. P. Wise, Jr.². ¹University of Louisville School of Medicine, Louisville, KY; and ²Department of Pharmacology and Experimental Therapeutics, University of Toledo, Toledo, OH.
- #3095 **Poster Board Number C207**
***In-vivo* repressor screen identifies dopaminergic and glutamatergic neurons as targets of manganese toxicity.** A. Melkote¹, S. Grant¹, M. Bernstein², T. Jursa³, C. A. Taylor¹, S. Hutchens¹, W. Shawlot¹, L. S. Zweifel², R. A. Gonzales¹, D. R. Smith³, and S. Mukhopadhyay¹. ¹University of Texas at Austin, Austin, TX; ²University of Washington, Seattle, WA; and ³University of California at Santa Cruz, Santa Cruz, CA.
- #3096 **Poster Board Number C208**
Arsenic Exposure Increases Anxiety-Like Phenotypes in Female Mice and Decreases Microglial Responsiveness to Pathogens. L. Wang¹, L. Zhao¹, J. Flores¹, A. Adeleke¹, M. Bell², K. Tseng¹, and R. M. Sargis¹. ¹University of Illinois Chicago, Chicago, IL; and ²DePaul University, Chicago, IL. Sponsor: R. Sargis, Endocrine Society
- #3097 **Poster Board Number C209**
A Quantitative Cell Painting Assay to Evaluate Organoid Viability and Morphodynamics During Acute Metal Exposure. R. Mohapatra^{1,2}, H. Zhao^{1,2}, and L. Smirnova^{1,2}. ¹Johns Hopkins University Center for Alternatives to Animal Testing (CAAT), Baltimore, MD; and ²Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD.
- #3098 **Poster Board Number C210**
Metabolic disruptions in the cerebellum of welders co-exposed to Manganese and Iron. J. A. George, N. Shin, C. G. Lee, C. Knight, K. Witkowiak, J. Park, D. Foti, and U. Dydak. Purdue University, West Lafayette, IN.
- #3099 **Poster Board Number C211**
Comparison of welding fume exposure metrics in relation to motor function. N. Shin, C. G. Lee, C. B. Knight, J. A. George, J. Park, and U. Dydak. Purdue University, West Lafayette, IN.
- #3100 **Poster Board Number C212**
Role of brain HIF signaling in motor function and manganese neurotoxicity. K. Windsor, and S. Mukhopadhyay. University of Texas at Austin, Austin, TX.

- #3101 **Poster Board Number C213**
Sex-Specific Hippocampal Metabolomic Perturbations Following Chronic Hexavalent Chromium Exposure in Guinea Pigs. Q. Wise¹, S. T. Vielee¹, M. Delnicki¹, G. C. Griffin¹, S. S. Diven¹, J. Easley¹, J. C. Kouokam¹, I. Meaza¹, H. Lu¹, A. Brownell¹, S. F. Gueye¹, N. Butzke-Souza¹, J. T. Wise², A. I. Vitorino Maia³, F. Donnarumma³, J. P. Wise Sr.¹, J. L. Wise¹, and J. P. Wise Jr.⁴. ¹University of Louisville, Louisville, KY; ²University of Hawai'i, Honolulu, HI; ³Louisiana State University, Baton Rouge, LA; and ⁴University of Toledo, Toledo, OH.
- #3102 **Poster Board Number C214**
From Exposure to Emotion in Welders: Does Metabolism in the Anterior Cingulate Cortex Play a Role? L. M. Aguiar, J. A. George, K. M. Witkowiak, N. Shin, C. Knight, C. G. Lee, J. Park, D. Foti, and U. Dydak. Purdue University, West Lafayette, IN.
- #3103 **Poster Board Number C215**
Symmetry of Quantitative MRI Indicators of Brain Manganese and Iron and Relation to Welding Fume Exposure, Mood and Motor Function. A. Mitchell, Q. Wang, K. M. Witkowiak, N. Shin, C. Lee, C. Knight, J. Park, D. Foti, and U. Dydak. Purdue University, West Lafayette, IN.
- #3104 **Poster Board Number C216**
Chromium (VI) and Manganese (III) Exposure Induces Lifespan Reduction and Endothelial Barrier Disruption. D. Kim¹, N. Boonpraman¹, S. T. Vielee², N. Kuhn¹, J. P. Wise Jr.³, and S. Sammi¹. ¹Michigan State University, Grand Rapids, MI; ²University of Louisville, Louisville, KY; and ³University of Toledo, Toledo, OH.
- #3105 **Poster Board Number C217**
Non-monotonic NMDA receptor localization alterations resulting from low-dose, early developmental lead (Pb) exposure in excitatory hiPSC-neurons. J. S. Smith, K. P. Dean, J. Colacino, P. M. Jenkins, and D. C. Dolinoy. University of Michigan, Ann Arbor, MI.
- #3106 **Poster Board Number C218**
Lead(Pb)-induced neuroinflammation in the developing zebrafish brain. H. Weinschutz Mendes, W. A. Tamagno, and J. L. Freeman. School of Health Sciences, Purdue University, West Lafayette, IN.
- #3107 **Poster Board Number C219**
Developmental Methylmercury Exposure Causes Persistent Proteomic Perturbations in Cortically Differentiated Human Induced Pluripotent Stem Cells. R. Mishra, A. M. Tukker, H. Kim, V. P. Thirumalaikumar, and A. B. Bowman. Purdue University, West Lafayette, IN.
- #3108 **Poster Board Number C220**
Gut Microbe *Akkermansia muciniphila* Mitigates Cadmium-Induced Cognitive and Hippocampal Dysfunction in Mice. H. Wang¹, J. J. Lim², H. Gu³, and J. Y. Cu⁴. ¹Department of Environmental Health Sciences, University of Michigan, Ann Arbor, MI; ²Institute for Systems Biology, Seattle, WA; ³College of Health Solutions, Arizona State University, Phoenix, AZ; and ⁴Department of Environment and Molecular Toxicology, Oregon State University, Corvallis, OR.
- #3109 **Poster Board Number C221**
Quantitative MRI and Light-Sheet Microscopy Reveal Subchronic Manganese-Induced Neuronal Activation in a Neurodevelopmental Mouse Model. K. M. Clark¹, A. A. Tienda¹, L. N. Brigante², D. C. Colvin³, E. S. Calipari¹, A. B. Bowman⁴, and F. E. Harrison¹. ¹Vanderbilt University, Nashville, TN; ²Novartis Biomedical Research, Boston, MA; ³Vanderbilt University Institute of Imaging Science, Nashville, TN; and ⁴Purdue University, West Lafayette, IN.
- #3110 **Poster Board Number C222**
Effects of methylmercury, lead, and their mixtures on IL-6 secretion in HMC-3 cells. E. F. Ramírez-Gutiérrez, C. D. Ortiz-Robles, L. C. Hernández-Kelly, M. I. Hernández-Ochoa, and E. S. Calderón-Aranda. Centro de Investigación y de Estudios Avanzados del IPN, Gustavo A. Madero, Mexico City, Mexico.

- #3111 **Poster Board Number** C223
Cadmium exposure alters mitochondrial function and promotes *in vitro* aggregation of the tau protein, a neuropathological hallmark of Alzheimer's disease. *N. Boonpraman¹, D. Kim¹, F. Shehjar¹, A. Sue², K. McRenaris², T. O'Hallaran², B. Combs¹, and S. R. Sammi¹.* ¹Michigan State University, Grand Rapids, MI; and ²Michigan State University, East Lansing, MI.
- #3112 **Poster Board Number** C224
The Gut Microbial Metabolite S-equol Partially Protected against Cadmium-induced Neuronal Cell Death Associated with Transcriptomic Signatures involved in Neurogenesis. *Y. P. Suh, and J. Y. Cui.* Oregon State University, Corvallis, OR.
- #3113 **Poster Board Number** C225
Evaluation of Neurotoxicity in Guinea Pigs Exposed to Hexavalent Chromium in Drinking Water for 90 Days. *J. P. Wise, Jr.¹, J. Vergis¹, S. T. Vielee², M. E. Delnicki², G. C. Griffin², S. S. Diven², J. Easley², J. C. Kouokam², I. Meaza², H. Lu², A. Brownell², S. F. Gueye², N. Butzke-Souza², J. P. Wise, Sr.², R. McCullumsmith¹, and J. L. Wise².* ¹University of Toledo, Toledo, OH; and ²University of Louisville, Louisville, KY.
- #3114 **Poster Board Number** C226
Transcriptional mechanisms of Manganese-induced dysregulation of 14-3-3 γ via YY1 in CAD neuronal cells. *I. Ajayi¹, K. Ofori¹, E. Pajarillo¹, S. Kim¹, A. Digman¹, M. Aschner², and E. Lee¹.* ¹Florida A&M University, Tallahassee, FL; and ²Albert Einstein College of Medicine, New York, NY.
- #3115 **Poster Board Number** C227
Psychological Symptomatology in Welders and Non-Welders Exposed to Manganese and Iron. *K. M. Witkowiak, N. Shin, C. G. Lee, C. Knight, R. Harold, J. Park, D. Foti, and U. Dydak.* Purdue University, West Lafayette, IN.
- #3116 **Poster Board Number** C228
APOE3/4 $\times$ Heavy Metal Exposure: Synaptic Dysfunction and Alzheimer's Disease Progression. *Y. Wang^{1,2}, and L. Smirnova^{1,2}.* ¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD; and ²Center for Alternatives to Animal Testing, Baltimore, MD.
- #3117 **Poster Board Number** C229
Yin Yang 1 (YY1) Mediates Manganese-Induced Downregulation of REST in CAD Neurons. *K. Ofori¹, I. Ajayi¹, E. Pajarillo¹, M. Aschner², and E. Lee¹.* ¹Florida A&M University, Tallahassee, FL; and ²Albert Einstein College of Medicine, New York, NY.
- #3118 **Poster Board Number** C230
The Behavioral and Neurotoxic Effects of Arsenic and Alcohol Co-Exposure. *M. Hernández, G. A. Picha, N. D. Morford-Oberst, S. Medina, and A. M. Barkley-Levenson.* University of New Mexico Health Sciences Center, Albuquerque, NM.
- #3119 **Poster Board Number** C231
Perinatal Lead Exposure Associated with Increased Diffuse and Vascular β -Amyloid in Aged Murine Brain. *R. K. Morgan, E. K. Matei, I. L. Bergin, T. Ishikawa, J. Pan, K. M. Polemi, D. C. Dolinoy, K. M. Bakulski, and J. A. Colacino.* University of Michigan School of Public Health, Ann Arbor, MI.
- #3120 **Poster Board Number** C232
RNA-sequencing reveals dose- and sex-specific transcriptomic disruptions in the adolescent rat hippocampus following developmental lead exposure. *S. E. Hardin, A. N. Rodichkin, J. L. McGlothlan, and T. R. Guilarte.* Florida International University, Miami, FL.
- #3121 **Poster Board Number** C233
Akkermansia muciniphila Prevents Cadmium-Induced Alzheimer's Disease-Like Dementia Linked to Epitranscriptomic Modulation in the Mouse Hippocampus. *Z. Kowash¹, J. Lim², A. Annalora¹, H. Wang³, and J. Cui¹.* ¹Oregon State University, Corvallis, OR; ²University of Washington, Seattle, WA; and ³University of Michigan, Ann Arbor, MI.

- #3122 **Poster Board Number** C234
m6A mRNA Epitranscriptomic Dysregulation Drives Microglia-Induced Neuroinflammation in Models of Environmentally Linked Parkinsonism. *D. Miller^{1,2,3}, A. Gregory^{1,3}, A. Ealy^{1,3}, G. Richardson^{1,2}, W. Albers^{1,4}, J. Gardner^{1,3}, A. Sanikapally¹, G. Zenitsky¹, H. Jin^{1,3}, V. Anantharam^{1,3}, A. Kanthasamy^{1,3}, and A. Kanthasamy^{1,3,2,4}.* ¹Isakson Center for Neurological Disease Research, University of Georgia, Athens, GA; ²Department of Biochemistry and Molecular Biology, University of Georgia, Athens, GA; ³Department of Physiology and Pharmacology, University of Georgia, Athens, GA; and ⁴Department of Biology, University of Georgia, Athens, GA.
- #3123 **Poster Board Number** C235
Characterizing brain region-specific gene expression changes following perinatal lead (Pb) exposure in the mouse brain. *E. K. Matei¹, R. K. Morgan¹, A. Tapaswi¹, H. Wang¹, X. Zhou², D. C. Dolinoy¹, K. M. Bakulski¹, and J. Colacino¹.* ¹University of Michigan School of Public Health, Ann Arbor, MI; and ²Yale University Department of Statistics and Data Science, New Haven, CT.
- #3124 **Poster Board Number** C236
Neuroinflammation in Rats after 90 Day Drinking Water Exposure to Low Concentration Hexavalent Chromium. *H. Jamal¹, S. H. Roof¹, S. T. Vielee¹, W. J. Buchanan¹, H. Lu¹, S. S. Diven¹, I. Meaza¹, J. L. Wise¹, and J. P. Wise Jr.².* ¹University of Louisville School of Medicine, Louisville, KY; and ²University of Toledo, Toledo, OH.
- #3125 **Poster Board Number** C237
Nickel dysregulates Hox-dependent spinal motor neuron differentiation. *V. Goriainova, X. Zhang, J. Zhai, and S. Cuddapah.* New York University Grossman School of Medicine, New York, NY.
- #3126 **Poster Board Number** C238
Peripheral HIF-2 Deficiency Attenuates Manganese-Induced Motor Deficits Independent of Brain Mn Load. *N. Sharma, and S. Mukhopadhyay.* University of Texas at Austin, Austin, TX.
- #3127 **Poster Board Number** C239
Influence of MTHFR Polymorphism on Mercury Toxicity: A Mechanistic Pathway Mapping Study. *J. Jacob¹, E. Johnston², and J. Wagner¹.* ¹Hawaii Department of Health, Pearl City, HI; and ²University of California, Los Angeles, CA. Sponsor: *M. Aung*

Monday, March 23, 9:15 AM to 11:45 AM, Exhibit Hall B, Convention Center

PS Poster Session: Neurotoxicity: Developmental

Chair(s): Melanie Wilson, Louisiana State University.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 9:15 AM–11:45 AM

Abstract #

#3128 **Withdrawn.**

#3130 **Poster Board Number** C243
Developmental lead (Pb) exposure alters noradrenergic regulation of stress behavior in zebrafish (*Danio rerio*). *M. R. Wilson, and A. Abdelmoneim.* Louisiana State University, Baton Rouge, LA.

- #3131 **Poster Board Number** C244
The effect of exercise on behavior and motor function following developmental benzo[a]pyrene exposure. D. Fox, C. Gogzheyana, M. Feltner, B. Wetzel, E. Lallai, T. Easybuck, E. Glos, and C. P. Curran. Northern Kentucky University, Highland Heights, KY.
- #3132 **Poster Board Number** C245
Can Exercise Improve Learning and Memory Following Developmental Exposure to Benzo[a]pyrene? C. Gogzheyana, M. Feltner, D. Fox, S. Lillard, L. Bishop, E. Lallai, T. Easybuck, R. Spigelmyer, and C. P. Curran. Northern Kentucky University, Highland Heights, KY.
- #3133 **Poster Board Number** C246
Multigenerational Neurobehavioral Impacts of Environmental Lead Exposure During Neurosensitive Windows in a Zebrafish Model. C. L. Pham¹, D. Meyer¹, A. Hahn¹, M. Llewellyn¹, C. Wu², G. Gonzalez¹, S. Acra¹, G. Winny¹, E. Kintzele¹, and T. R. Baker¹. ¹University of Florida, Gainesville, FL; and ²National Yang Ming Chiao Tung University, Hsinchu City, Taiwan.
- #3134 **Poster Board Number** C247
Gestational Exposure to Ultrafine Iron-Oxide Particles Produce Sex-Dependent Changes in Behavior and Neurotransmitters in Cortico-Striatal Brain Regions. M. C. Masten, E. Marvin, J. Cubello, J. V. George, E. Murray, T. Covitz, M. Sobolewski, and D. A. Cory-Slechta. University of Rochester, Rochester, NY.
- #3135 **Poster Board Number** C248
Parameterizing a mechanistic model of thyroid hormone kinetics and dynamics for cross species extrapolation using a three dimensional *in vitro* model of the developing brain. A. Charlton¹, J. Leedale², E. de Caro³, I. Scharkin³, L. Merit Stark³, E. Fritsche⁴, and K. Koch³. ¹Syngenta, Greensboro, NC; ²Syngenta, Jealott's Hill International Research Centre, United Kingdom; ³IUF – Leibniz Research Institute for Environmental Medicine, Düsseldorf, Germany; and ⁴Swiss Centre for Applied Human Toxicology (SCAHT), Basel, Switzerland.
- #3136 **Poster Board Number** C249
Emerging Neurotoxicants: PFAS induce Alpha Synuclein Aggregation and Mitochondrial Dysfunction in SH-SY5Y Neuronal Model. D. Wilson, and M. Narayan. University of Texas at El Paso, El Paso, TX. Sponsor: D. Wilson, Society of Environmental Toxicology and Chemistry
- #3137 **Poster Board Number** C250
Neurotoxicity of glyphosate and dicamba exposures on zebrafish (*Danio rerio*) embryo-larval model and adult systems. V. Sridhar, and J. L. Freeman. Purdue University, West Lafayette, IN.
- #3138 **Poster Board Number** C251
Enhancing Mechanistic Neurotoxicity Evaluations with *in vitro* LUHMES-based Gene Co-expression Network Analysis. L. Sinke¹, J. Suess², S. Kunnen¹, S. Tangianu², H. van Kessel¹, M. Leist², G. Callegaro¹, and B. van de Water¹. ¹Leiden University, Leiden, Netherlands; and ²University of Konstanz, Konstanz, Germany.
- #3139 **Poster Board Number** C252
Adolescent Exposure to Ultrafine Particulate Matter Induces Sex-Specific Alterations in Behavior, Myelin and Transcriptome in the Medial Prefrontal Cortex. O. Berghaus¹, C. Leckie¹, H. Park¹, S. Ramjan², D. Marechal¹, T. Wang¹, X. Zhang³, Y. Nomura², and J. Liu¹. ¹City University of New York, Advanced Science Research Center, New York, NY; ²City University of New York, Queens College, New York, NY; and ³Baylor College of Medicine, Houston, TX.
- #3140 **Poster Board Number** C253
Disruption of CYP-Mediated Metabolism Modulates Region- and Dose-Dependent Effects of Developmental Exposure to 3,3'-Dichlorobiphenyl (PCB 11) on Neuronal Morphology in Juvenile Mice. R. J. Wilson¹, R. Mendieta¹, D. A. Jazari¹, A. E. Valenzuela¹, X. Ding², H. Lehmler³, and P. J. Lein¹. ¹University of California - Davis, Davis, CA; ²University of Arizona, Tucson, AZ; and ³University of Iowa, Iowa City, IA.

- #3141 **Poster Board Number C254**
The zebrafish microbiome modulates neurobehavioral responses to azoxystrobin.
 C. Wray^{1,2}, V. Castañeda-Monsalve^{1,3}, B. Engelmann¹, U. E. Rolle-Kampczyk¹, N. Schweiger¹,
 D. Ghosh¹, S. Kader¹, C. R. Tyler², N. Jehmlich¹, and T. Tal^{1,4}. ¹Helmholtz-Centre for Environmental
 Research – UFZ, Leipzig, Germany; ²University of Exeter, Exeter, United Kingdom; ³University of
 Copenhagen, Copenhagen, Denmark; and ⁴University Leipzig, Leipzig, Germany.
- #3142 **Poster Board Number C255**
**PFAS as myelin-targeting developmental neurotoxicants: cross-model evidence
 for persistent white-matter and sensory circuit vulnerability.** B. Zalc^{1,2}, V. Valcarcel-
 Hernandez^{2,3,4}, L. Butruille⁵, E. Martin¹, B. Stankoff¹, C. Lubetzki¹, P. Passereau⁶, E. Leray⁷, and
 S. Remaud⁸. ¹Paris Brain Institute (ICM), Paris, France; ²Sorbonne University, INSERM, CNRS,
 Paris, France; ³Museum National d'Histoire Naturelle (MNHN), Paris, France; ⁴CNRS, Paris, France;
⁵MNHN, Paris, France; ⁶Institut Curie, Université PSL, Sorbonne University, CNRS UMR168, Physics
 of Cells and Cancer, Paris, France; ⁷Inserm U1309 Health Services and Management, CS 74312,
 Rennes, France; and ⁸Museum National d'Histoire Naturelle, Paris, France; CNRS, Paris, France.
- #3143 **Poster Board Number C256**
**Sirtuin pathway under model of persistent methylmercury neurotoxicity in hiPSC-
 derived cortical neurons.** I. Bramatti, A. M. Tukker, R. Mishra, and A. B. Bowman. Purdue
 University, Lafayette, IN.
- #3144 **Poster Board Number C257**
**Developmental Exposure to PFOA and a Novel Resource Deprivation Stress Enhances
 Sex-specific Deficits in Motivation and Motor Deficits.** E. Murray, T. Covitz, C. Dressel,
 K. Eggleston, J. George, M. Masten, E. Marvin, D. Cory-Slechta, and M. Sobolewski. University of
 Rochester School of Medicine and Dentistry, Rochester, NY.
- #3145 **Poster Board Number C258**
**The Effect of Juvenile Polychlorinated Biphenyl Exposure on Autism Spectrum Disorder
 Related Behaviors and Dendritic Morphology in Mice.** L. F. Tanaka, J. Tlapa, E. Reseland,
 M. Ridlon, T. Jordan, C. Kennedy, A. Lentine, and K. Keil Stietz. University of Wisconsin-Madison,
 Madison, WI.
- #3146 **Poster Board Number C259**
**Gestational and lactational exposure to the synthetic cannabinoid nabilone at clinically
 relevant dose levels does not adversely affect offspring development or neurobehavior
 in rats.** C. Klocke, N. Deng, J. Lamca, and W. Jo. Bausch Health, Bridgewater, NJ.
- #3147 **Poster Board Number C260**
Expanding the assessment of learning and memory with the Cincinnati water maze.
 C. A. Loeschel, S. Schneider, R. Buesen, and D. Funk-Weyer. BASF SE, Ludwigshafen am Rhein,
 Germany. Sponsor: D. Funk-Weyer, EUROTOX
- #3148 **Poster Board Number C261**
**A data-driven approach to identify performance compounds for development of *in vitro*
 blood-brain barrier new approach methods.** M. Culbreth. Human Foods Program, U.S. Food
 and Drug Administration, Laurel, MD.
- #3149 **Poster Board Number C262**
**Disruption of Mesolimbic Dopaminergic Neuron Numbers in the Prairie Vole Brain by
 Developmental Exposure to a Common Flame-Retardant Mixture.** J. Cao¹, S. A. Gillera², and
 H. B. Patisaul¹. ¹NIEHS, Durham, NC; and ²NCSU, Raleigh, NC.

Monday, March 23, 1:45 PM to 4:15 PM, Exhibit Hall B, Convention Center

PS Poster Session: Developmental and Juvenile Toxicology

Chair(s): Silvia Karim, Lurie Children's Hospital of Chicago; and Jeffrey Pitt, Roquette.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 1:45 PM–4:15 PM

Abstract #

- #3150 **Poster Board Number** D264
Leveraging HiBiT cell lines for assessing off-target degradation of developmental and hematopoietic related proteins. A. Rengarajan, K. Pearson, R. Gonzalez, A. Stermer, and A. G. Aslamkhan. Merck & Co., Inc., West Point, PA.
- #3151 **Poster Board Number** D265
Environmentally Relevant Concentrations of Triphenyl Phosphate (TPhP) Impact Development in Zebrafish. L. Williams, B. Schmandt, M. Diduff, and G. Smart. Bates College, Lewiston, ME.
- #3152 **Poster Board Number** D266
Acute and Developmental Toxic Effects of Dichloroacetic Acid in Zebrafish: Role of Oxidative Stress. M. Hariri, C. Whitmer, and K. A. Horzmann. Auburn University, Auburn, AL.
- #3153 **Poster Board Number** D267
Developmental Toxicity of Microplastics in Zebrafish (*Danio rerio*): Insights into Larval Behavior. C. E. Bastos Lopes, M. Hariri, A. Nunes, P. Lotsch, and K. Horzmann. Auburn University, Auburn, AL.
- #3154 **Poster Board Number** D268
Perfluorohexane sulfonate (PFHxS) induced developmental toxicity is susceptible to photoperiod perturbations. S. Ferdous, C. Frank, H. Sabatini, C. Chouinard, and S. Dasgupta. Clemson University, Clemson, SC.
- #3155 **Poster Board Number** D269
Developmental Exposure to Bisphenols and Maladaptive Behavioral Stress Responses: Causal Links and Mechanistic Insights. A. N. Casillo, and A. Abdelmoneim. Louisiana State University School of Veterinary Medicine, Baton Rouge, LA.
- #3156 **Poster Board Number** D270
Aryl Hydrocarbon receptor pathway drives TBBPA induced Cartilage development and hemoglobin disruption defects. K. S. Senarath Pathirajage, T. Johnson, S. Sharma, and S. Dasgupta. Clemson University, Clemson, SC.
- #3157 **Poster Board Number** D271
Single-Cell Transcriptomic Profiling of Bisphenol-Induced Disruption in Human Embryonic Stem Cell Osteogenesis. N. Iwobi, and N. R. Sparks. University of California, Irvine, Irvine, CA.
- #3158 **Poster Board Number** D272
Investigating impact of gene-environment interactions on developmental toxicology of methylmercury; characterizing CRISPR-induced mutations in glutathione pathway genes in zebrafish. D. S. Abarca Palma, E. J. Ferber, C. J. Hoyt, and B. Carter. University of Wisconsin Eau Claire, Eau Claire, WI.

#3159	Poster Board Number D273 Assessment of Developmental and Exocrine Pancreatic Toxicity of Aqueous Film Forming Foams (AFFF) in Larval Zebrafish (<i>Danio rerio</i>) and its Potential Modulation by the Nrf2 Pathway. S. Emani, K. Satbhai, and A. Timme-Laragy. University of Massachusetts Amherst, Amherst, MA.
#3160	Poster Board Number D274 Microengineered Palate Systems Reveal How Matrix Mechanics Shape Sonic Hedgehog Signaling. A. Yelleti, and B. Johnson. Michigan State University, East Lansing, MI.
#3161	Poster Board Number D275 Mitochondrial and neural developmental disruption by ractopamine exposure in zebrafish: Integrated transcriptomic and functional analyses. Y. Huang, H. Chen, S. Wu, and B. Liu. National Taiwan University College of Medicine, Taipei, Taiwan. Sponsor: S. Liu
#3162	Poster Board Number D276 Transgenic zebrafish embryo models for AOP-based developmental toxicity evaluation in craniofacial and cardiac anomalies. S. Liu ¹ , J. Tasaki ² , T. Takeshita ¹ , S. Nakagawa ² , K. Saito ² , and Y. Ito ² . ¹ Kao Corporation, Kawasaki, Japan; and ² Kao Corporation, Tochigi, Japan. Sponsor: S. Liu, Japanese Society of Toxicology
#3163	Poster Board Number D277 Whole-Body Teratogenicity Imaging by Tissue Clearing and Light Sheet Microscopy Combined with AOP-Based Assay in Transgenic Zebrafish Embryo. J. Tasaki ¹ , S. Liu ² , M. Aoki ¹ , and T. Mori ¹ . ¹ Kao Corporation, Haga, Japan; and ² Kao Corporation, Kawasaki, Japan. Sponsor: J. Tasaki, Japanese Society of Toxicology
#3164	Poster Board Number D278 Application of Chick Embryo-Based Models for Non-Clinical Developmental Toxicity Screening. J. Kim, C. Park, D. Kim, W. Jeong, and J. Lee. Chungnam National University, Daejeon, Korea, Republic of. Sponsor: J. Lee, Society for Birth Defects Research & Prevention
#3165	Poster Board Number D279 Developmental and Behavioral Effects of Micro-/Nanoplastics (MNPs) in Zebrafish Embryos and Larvae. K. Yun ¹ , H. Jin ¹ , J. Jeon ^{2,3} , S. Yang ² , and K. Kim ¹ . ¹ Department of Environmental Engineering, Seoul National University of Science & Technology, Seoul, Korea, Republic of; ² Department of Applied Chemistry, Kyung Hee University, Yongin-si, Korea, Republic of; and ³ Nanobio Measurement Group, Korea Research Institute of Standards and Science (KRISS), Daejeon, Korea, Republic of.
#3166	Poster Board Number D280 Integrated risk assessment using NAMs and PBK modeling indicates low teratogenic risk from empirical cosmetic-use exposure to Glucosamine. T. Takeshita, S. Liu, J. Tasaki, Y. Nukada, K. Saito, and Y. Ito. Kao Corporation, Tochigi, Japan. Sponsor: T. Takeshita, Japanese Society of Toxicology
#3167	Poster Board Number D281 The Behavioral Toll: PFAS Compromises Anti-Predator Behaviors of Larval Fish. T. King-Heiden ¹ , E. Adongo ¹ , G. Versnik ² , S. Lyons ¹ , and G. Dehnert ³ . ¹ University of Wisconsin - La Crosse, La Crosse, WI; ² University of Wisconsin - Stevens Point, Stevens Point, WI; and ³ University of Wisconsin, Madison, WI.
#3168	Poster Board Number D282 Tetrabromobisphenol S (TBBPS)-induced developmental toxicity in zebrafish embryos. R. Serradimigni, and S. Dasgupta. Clemson University, Clemson, SC.
#3169	Poster Board Number D283 Butyrate rescues chlorpyrifos-induced social deficits through inhibition of class I histone deacetylases. P. Zhang, and Y. Geng. University of Washington, Seattle, WA.

- #3170 **Poster Board Number D284**
Nanoplastic Exposure Differentially Impacts Placenta Function in a Sex Specific Manner.
A. Harbolic¹, H. Alahmadi¹, M. Jojy¹, C. De Oliveira-Cordova¹, R. Reynolds¹, C. Cary², D. McWilliams³, P. A. Stapleton², and G. R. Warner¹. ¹New Jersey Institute of Technology, Newark, NJ; ²Rutgers University, Piscataway, NJ; and ³Villanova University, Villanova, PA.
- #3171 **Poster Board Number D285**
Linking Developmental Toxicity and Oxidative Stress to Alkyl Substituted Naphthalenes in Zebrafish. *M. L. Moreshead, A. I. De La Torre, S. J. Carrell, R. Scott, K. A. Anderson, and R. L. Tanguay.* Oregon State University, Corvallis, OR.
- #3172 **Poster Board Number D286**
Optimizing Dosing Initiation in Rabbit Embryo-Fetal Development Toxicity Studies: Avoiding the Pre-implantation Window. *Y. Hu, L. Zhang, Y. Zhang, and J. Ma.* JOINN Laboratories, Suzhou, China.
- #3173 **Poster Board Number D287**
Ultrafine particulate inhalation during pregnancy results in placental adaptation and fetal hyperglycemia in rats. *T. N. Seymore¹, D. McWilliams², S. Hoffmann³, P. Louro¹, C. Gardner¹, D. Laskin¹, M. Goedken¹, and P. Stapleton¹.* ¹Rutgers University, Piscataway, NJ; ²Villanova University, Villanova, PA; and ³Bucknell University, Lewisburg, PA.
- #3174 **Poster Board Number D288**
Physiological and Functional Responses in Rat Offspring Exposed to Simultaneous 4G and 5G EMFs from Gestation to Weaning. *J. Park^{1,2}, S. Oh², E. Gu², S. Min^{1,2}, M. Jang², Y. Kim², S. Jeon³, J. Moon³, K. Imaida⁴, M. Kawabe⁵, M. Yokohira⁴, and K. Han².* ¹University of Science & Technology, Daejeon, Korea, Republic of; ²Korea Institute of Toxicology, Daejeon, Korea, Republic of; ³Electronics and Telecommunications Research Institute, Daejeon, Korea, Republic of; ⁴Kagawa University, Kagawa, Japan; and ⁵Trans Genic Inc., Shizuoka, Japan.
- #3175 **Poster Board Number D289**
Human Induced Pluripotent Stem Cell (hiPSCs)-Derived Osteoblasts for In Vitro Assessment of Skeletal malformation. *P. van Rossum¹, J. Horcas-Nieto¹, G. Hendriks¹, A. Jamalpoor¹, and K. Wolton².* ¹Toxys, Leiden, Netherlands; and ²Unilever, Sharnbrook, United Kingdom.
- #3176 **Poster Board Number D290**
Developmental effects of (+)-Anatoxin-a exposure in zebrafish reveal a critical window of neuromuscular susceptibility. *N. Aluru¹, R. Lai², and M. E. Hahn¹.* ¹Woods Hole Oceanographic Institution, Woods Hole, MA; and ²Faculty of Science and Technology, University of Macau, Macau, China.
- #3177 **Poster Board Number D291**
Ontogeny of placental FcRn protein during human and animal pregnancy to inform developmental toxicity testing. *C. J. Bowman¹, W. J. Breslin², C. Chen³, W. Foster⁴, J. Hui⁵, B. Kusmider⁶, S. Laffan⁷, M. Myers⁸, L. Sivaraman⁹, B. Tornesi⁶, S. Westmoreland¹⁰, and J. M. DeSesso¹¹.* ¹Pfizer Inc, Groton, CT; ²Breslin Toxicology Consulting, LLC, Indianapolis, IN; ³HESI, Washington, DC; ⁴McMaster University, Hamilton, ON, Canada; ⁵Chara Consulting, LLC, Highland Beach, FL; ⁶Medicines for Malaria Venture (MMV), Geneva, Switzerland; ⁷Amgen, Thousand Oaks, CA; ⁸Gilead Sciences, Inc, Foster City, CA; ⁹Bristol Myers Squibb, New Brunswick, NJ; ¹⁰AbbVie, Worcester, MA; and ¹¹Exponent, Inc, Washington, DC.
- #3178 **Poster Board Number D292**
A Translational In Vitro Model of the Human Placental-Embryo Interface for Investigating PFAS Developmental Toxicity. *L. Campagnolo, G. Posanzini, C. Bianco, and V. Lacconi.* University of Rome Tor Vergata, Rome, Italy.

- #3179 **Poster Board Number D293**
Windows of developmental susceptibility to cannabidiol reveal stage-dependent morphological and behavioral effects. V. Medina¹, C. Callahan¹, T. Shamblin², J. Lott¹, M. Clayton¹, K. Martin¹, C. Roper¹, N. Ashpole², and K. L. Willett¹. ¹The University of Mississippi, Oxford, MS; and ²Mississippi State University, Starkville, MS.
- #3180 **Poster Board Number D294**
Berberine and Metformin Inhibit Caterpillar Growth and Chrysalis Development. J. E. Schultz^{1,2}, and G. G. Gould². ¹University of California, Davis, Davis, CA; and ²University of Texas Health Science Center at San Antonio, San Antonio, TX.
- #3181 **Poster Board Number D295**
From High Dose to High Concern: Are Current Developmental Toxicity Findings for Essential oil- and Fragrance Ingredients Human-Relevant? V. Rocha¹, G. Adamson¹, L. Maliqi², and A. Natsch². ¹Givaudan Fragrances Corp, East Hanover, NJ; and ²Givaudan Fragrances Corp, Kempthal, Switzerland.
- #3182 **Poster Board Number D296**
Photoperiod Dependent Impacts on Toxicity of Nuclear Receptor Ligands. A. A. Rojas, S. Sharma, and S. Dasgupta. Clemson University, Clemson, SC.
- #3183 **Poster Board Number D297**
Fit-for-purpose refinement and application of a risk of bias assessment on literature reporting prenatal acetaminophen exposure and neurodevelopmental effects. S. Fitch¹, M. Vincent¹, L. C. Bylsma¹, J. Rhoden², and D. Wikoff¹. ¹ToxStrategies, Asheville, TX; and ²Kenvue, Summit, NJ.
- #3184 **Poster Board Number D298**
Uncovering lineage-specific molecular mechanisms and gene signatures of developmentally osteotoxic chemicals using human embryonic stem cells. P. Babakhanins, T. Spaeter, C. Gatdula, R. Cheema, and N. zur Nieden. University of California Riverside, Riverside, CA.
- #3185 **Poster Board Number D299**
Developmental light conditions modulate basal mRNA profiles in zebrafish. A. M. Gehl, L. Truong, and R. L. Tanguay. Oregon State University, Corvallis, OR.
- #3187 **Poster Board Number D301**
Toxicological Evaluation of Age-Dependent Responses to a SARS-CoV-2 mRNA Vaccine Candidate in Juvenile and Adult Sprague-Dawley Rats. H. Bae^{1,2}, H. Jo³, I. Park³, N. Kim³, E. Kwon², J. Ahn², N. Lee^{2,4}, J. Nam⁵, J. Yun³, and B. Kang^{6,2}. ¹Seoul National University College of Medicine, Seoul, Korea, Republic of; ²Department of Experiment Animal Research, Biomedical Research Institute, Seoul National University Hospital, Seoul, Korea, Republic of; ³Laboratory of Veterinary Toxicology, College of Veterinary Medicine and Research Institute for Veterinary Science, Seoul National University, Seoul, Korea, Republic of; ⁴Department of Veterinary Pathology and Research Institute of Veterinary Science, College of Veterinary Medicine, Seoul National University, Seoul, Korea, Republic of; ⁵Department of Biotechnology, The Catholic University of Korea, Bucheon, Korea, Republic of; and ⁶Graduate School of Translational Medicine, Seoul National University College of Medicine, Seoul, Korea, Republic of.
- #3188 **Poster Board Number D302**
BTEX constituent effects resultant of low-level exposure during critical windows of early development in zebrafish. M. L. Connell¹, D. Meyer¹, G. Gonzalez¹, C. Wu², E. Kintzele¹, E. Cavanaugh¹, A. Hahn¹, E. Vandermeulen¹, and T. R. Baker¹. ¹University of Florida, Gainesville, FL; and ²National Yang Ming Chiao Tung University, Hsinchu City, Taiwan.

#3189	Poster Board Number D303 ASD-relevant neurodevelopmental toxicities of the monoterpenes Thymol and p-Cymene. <i>B. He, P. Zhang, A. Chen, C. Hong, E. Kong, and Y. Geng.</i> University of Washington, Seattle, WA.
#3190	Poster Board Number D304 Early Developmental Neurotoxicity of Quaternary Ammonium Compounds. <i>J. A. Gomes, J. Chen, L. Li, A. M. Gutierrez, Y. Fernandez, and J. F. Robinson.</i> UCSF, San Francisco, CA.
#3191	Poster Board Number D305 Machine-Learning Assisted Predictive Developmental and Reproductive Toxicity Assessment Using <i>C. elegans</i> as a New Approach Methodology. <i>S. Mondal¹, A. Medewar¹, A. Laing¹, A. Shen¹, J. Brown¹, G. Carrion¹, and A. Ben-Yakar^{1,2}.</i> ¹ vivoVerse, Inc., Austin, TX; and ² The University of Texas at Austin, Austin, TX.
#3192	Poster Board Number D306 Multi-Omics Profiling of Zebrafish Embryos Exposed to 3,4-Dichloroaniline: Insights from a Pilot Workflow Study. <i>A. Muriana¹, A. Weiner¹, M. Viant², E. Sostare², M. Gallego¹, I. Ibarburu¹, L. Cruchley-Fuge³, O. Edbali³, A. Southam³, R. Weber³, and J. Colbourne².</i> ¹ BBD BioPhenix S.L.-Biobide, San Sebastian, Spain; ² Michabo Health Science Limited, Coventry, United Kingdom; and ³ University of Birmingham, Birmingham, United Kingdom.
#3193	Poster Board Number D307 Uncovering the Role of Glucocorticoid Signaling in Arsenic-mediated Stress Behavioral Alterations. <i>D. McAtee, and A. Abdelmoneim.</i> Louisiana State University - School of Veterinary Medicine, Baton Rouge, LA.
#3193a	Poster Board Number D308 To Evaluate the Effect of Patch Application in the Reproduction/Developmental Toxicity Screening Test using Wistar Rats. <i>R. R. Verma, S. Sau, S. G. Soni, S. Maurya, P. B. Kapuriya, K. Hadiya, V. Bhimani, and M. V. Patel.</i> Jai Research Foundation, Vapi, India.

Monday, March 23, 1:45 PM to 4:15 PM, Exhibit Hall B, Convention Center

PS Poster Session: Reproductive Toxicology I

Chair(s): Sumira Phatek, University of New Mexico; and Jone Stanley, LABCORP.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 1:45 PM–4:15 PM

Abstract #

#3194	Poster Board Number D324 Exploring the Effects of Chronic Exposure to DEHP and DiNP on Uterine Endometrial Glycogen in Mice. <i>I. R. Raneri¹, P. Zarei², S. Ibrahim², M. J. Laws², and M. Dean².</i> ¹ CUNY John Jay College of Criminal Justice, New York, NY; and ² University of Illinois Urbana-Champaign, Champaign, IL.
#3195	Poster Board Number D325 AhR-Mediated Blood-Testis Barrier Regulation Links PCB Exposure to Sperm DNA Methylation Variability. <i>J. Zhu¹, O. Sergeyev², O. Arowolo¹, and A. S. Suvorov¹.</i> ¹ University of Massachusetts Amherst, Amherst, MA; and ² Skolkovo Institute of Science and Technology, Moscow, Russian Federation.

- #3196 **Poster Board Number D326**
Chronic Exposure to an Environmentally Relevant Phthalate Mixture Induces an Immune Response in Young Adulthood that Might Contribute to Oxidative Stress and Aberrant Extracellular Matrix Remodeling in the Ovary Later in Life. A. M. Safar, R. Santacruz-Márquez, M. J. Laws, N. M. Harrington, and J. A. Flaws. University of Illinois Urbana-Champaign, Champaign, IL.
- #3197 **Poster Board Number D327**
Orphan Nuclear Receptor 4A1 (NR4A1) and NR4A2 Dual Ligands Inhibit Endometriosis Progression via Gas6-TAM and Epithelial-Mesenchymal Transition Pathways. W. T. Tsui¹, S. Upadhyay¹, L. Zhang¹, D. Kim¹, G. Wright¹, S. Han², and S. Safe¹. ¹Texas A&M University, College Station, TX; and ²Baylor College of Medicine, Houston, TX.
- #3198 **Poster Board Number D328**
Gestational Inhalation of Micro-nanoparticles During Pregnancy Alters the Profile of Metabolites in the Mammary Gland of Sprague Dawley Rats. T. L. Moore, E. C. Francis, and P. A. Stapleton. Rutgers University, Piscataway, NJ.
- #3199 **Poster Board Number D329**
A new approached method for long-term evaluation of reproductive toxicity and its recovery using a mouse testis organ culture system. S. Yokota¹, T. Sato², K. Hashimoto², T. Nishimura¹, T. Yamada¹, H. Arakawa³, and T. Ogawa². ¹Division of Cellular and Molecular Toxicology, Center for Biological Safety and Research, National Institute of Health Sciences, Kawasaki, Japan; ²Department of Regenerative Medicine, Graduate School of Medicine, Yokohama City University, Yokohama, Japan; and ³Department of Regulatory Science, Graduate School of Pharmaceutical Sciences, Nagoya City University, Nagoya, Japan.
- #3200 **Poster Board Number D330**
Time- and Dose-Dependent Effects of Spinosad on the Total Antioxidant Capacity in Cultured Bovine Granulosa Cells. O. Simsek¹, L. Altintas², A. Koker¹, E. Y. Gurle Albayrak¹, M. Albayrak¹, and F. Kalkir¹. ¹Burdur Mehmet Akif Ersoy University, Burdur, Turkey; and ²Ankara University, Ankara, Turkey.
- #3201 **Poster Board Number D331**
Human extravillous trophoblasts exhibit circadian rhythms responsive to molecular clock regulators and select environmental chemicals. G. Chimino¹, J. Moeller¹, A. Zevallos-Morales¹, C. Murga-Zamalloa¹, A. Yaw², H. Hoffmann², and A. Veiga-Lopez¹. ¹University of Illinois Chicago, Chicago, IL; and ²Michigan State University, East Lansing, MI.
- #3202 **Poster Board Number D332**
Hormone Secretion and Membrane Transporter Regulation in Human Placental Explants Under Standard and Accelerated Culture Conditions. C. Kuwata^{1,2,3}, M. J. Campbell^{1,2}, O. Paul^{1,2}, C. Jiang^{1,2}, J. K. Fallon⁴, J. B. Tiley⁴, N. P. Illsley^{2,5}, M. Goedken², E. Rosenfeld^{6,7}, and L. M. Aleksunes^{1,2}. ¹Environmental and Occupational Health Sciences Institute, Rutgers University, Piscataway, NJ; ²Department of Pharmacology and Toxicology, Ernest Mario School of Pharmacy, Rutgers University, Piscataway, NJ; ³Medicinal Safety Research Laboratories, Daiichi Sankyo Co. Ltd., Tokyo, Japan; ⁴Eshelman School of Pharmacy, University of North Carolina, Chapel Hill, NC; ⁵Placental Research Group, Maplewood, NJ; ⁶Division of Maternal-Fetal Medicine, Department of Obstetrics, Gynecology, and Reproductive Sciences, Rutgers Robert Wood Johnson Medical School, New Brunswick, NJ; and ⁷Division of Biostatistics and Epidemiology, Department of Obstetrics, Gynecology, and Reproductive Sciences, Rutgers Robert Wood Johnson Medical School, New Brunswick, NJ.
- #3203 **Poster Board Number D333**
The Effects of Iodoacetic Acid on Oxidative Stress Markers in the Mouse Ovary. A. Fields¹, A. Varella Gonsioroski², R. Santacruz Marquez¹, M. J. Laws¹, and J. Flaws¹. ¹University of Illinois Urbana Champaign, Urbana, IL; and ²Michigan State University, East Lansing, MI.

- #3204 **Poster Board Number** D334
SILDENAFIL CREAM, 3.6%: VAGINAL DOSE STUDY ON EMBRYOFETAL DEVELOPMENT TOXICITY AND TOXICOKINETICS IN RATS. D. R. Friend, and A. Thurman. Dare Bioscience, San Diego, CA. Sponsor: *D. Jacobson-Kram*
- #3205 **Poster Board Number** D335
Lifelong Exposure to an Environmentally Relevant Endocrine Disruptor Mixture Promotes Preneoplastic Lesions and Reveals Molecular Markers Linked to Poor Survival in Prostate Cancer. L. O. Mendes¹, A. R. Gorzoni¹, T. C. Sousa¹, K. D. Hinokuma¹, M. S. Ricardo¹, A. Y. Yoshigae¹, A. M. de Aquino², E. A. Mareco¹, *W. R. Scarano*³, and A. d. Castilho¹. ¹Western Paulista University - UNOESTE, Presidente Prudente, Brazil; ²Henry Ford Cancer Institute, Detroit, MI; and ³Sao Paulo State University, Botucatu, Brazil.
- #3206 **Poster Board Number** D336
Diisononyl phthalate disrupted microRNA regulation of the placental transcriptome. *S. Lapehn*¹, E. J. Firsick¹, M. Parenti¹, J. MacDonald², T. Bammler², S. Sathyanarayana^{1,2}, and A. G. Paquette^{1,2}. ¹Seattle Children's Research Institute, Seattle, WA; and ²University of Washington, Seattle, WA.
- #3207 **Poster Board Number** D337
Profiling the novel impacts of the organochlorine compounds tris(4-chlorophenyl)methane (TCPM) and tris(4-chlorophenyl)methanol (TCPMOH) on human placental cells. *G. Romo*¹, *M. Drelichman*², *A. Trapse*¹, *C. Cellini*¹, *F. Stein*¹, *S. Campbell*¹, *K. Sant*³, and *E. R. Elkin*¹. ¹School of Public Health, San Diego State University, San Diego, CA; ²School of Public Health San Diego State University, San Diego, CA; and ³Department of Pharmacology and Toxicology, College of Veterinarian Medicine, Michigan State University, East Lansing, MI.
- #3208 **Poster Board Number** D338
Effects of S - (1,2- dichlorovinyl)- L - cysteine (DCVC) exposure on mitochondrial respiration in BeWo Cells. *A. Trapse*, *M. Drelichman*, *G. Romo*, and *E. R. Elkin*. School of Public Health, San Diego State University, San Diego, CA.
- #3209 **Poster Board Number** D339
Toxicity assessments of perfluorobutane sulfonic acid (PFBS) in two *in vitro* human placental models. *M. G. Drelichman*¹, *S. Campbell*¹, *G. Romo*¹, *A. Trapse*¹, *C. Cellini*¹, *A. Bhattacharya*², *J. Huang*³, and *E. R. Elkin*¹. ¹School of Public Health, San Diego State University, San Diego, CA; ²MD Anderson Cancer Center, Houston, TX; and ³Department of Public Health Sciences, University of Hawai'i at Mānoa, Honolulu, HI.
- #3210 **Poster Board Number** D340
Chromium(VI) Exposure During Pregnancy Disrupts Placental Development and Fetal Growth by Altering the Epigenome and Transcriptome of the Placental Labyrinth zone. *I. P. Saravanan*¹, *V. Kolla*¹, *J. Cai*¹, *S. Kluaiphannangam*¹, *J. A. Arosh*¹, *T. K. Lamon*², *R. E. Rose*², *D. J. Boland*³, *S. Krothapalli*¹, *S. Azzi*¹, *E. Miller*¹, *O. Mohr*¹, *E. Quinones*¹, and *S. K. Banu*¹. ¹Department of Veterinary Integrative Biosciences, Texas A&M University, College Station, TX; ²Comparative Medicine Program, Texas A&M University, College Station, TX; and ³Texas A&M University Institute of Genomics and Society, Texas A&M University, College Station, TX.
- #3211 **Poster Board Number** D341
Effects of Prenatal BaP Exposure on Spindle Quality in MII Mouse Oocytes. *N. Vaddella*, *K. L. Parada*, and *U. Luderer*. University of California, Irvine, Irvine, CA.
- #3212 **Poster Board Number** D342
Sexually Dimorphic Immune Response in Placentas of Nano-Titanium Dioxide Exposed Rat Dams. *T. D. Gluth*^{1,2}, *A. C. Dunn*^{1,2}, *K. M. Seman*^{1,2}, *M. S. Springer*^{1,2}, *R. P. Hunter*^{1,2}, and *E. C. Bowdridge*^{1,2}. ¹Department of Physiology, Pharmacology, & Toxicology, West Virginia University School of Medicine, Morgantown, WV; and ²Center for Inhalation Toxicology, West Virginia University School of Medicine, Morgantown, WV.

- #3213 **Poster Board Number D343**
Thyroid dysregulation secondary to hepatic enzyme induction underlies altered ovarian cyclicity in rats exposed to PF-06835919, a KHK inhibitor. *S. N. Campion, C. J. Bowman, C. Houle, J. Cook, and J. Zhou.* Pfizer Inc., Groton, CT.
- #3214 **Poster Board Number D344**
The effects of a combination of western diet and phthalate exposure on gene expression levels in the ovary. *M. J. Laws¹, S. Kramer¹, Z. Bomstein², A. Deviney¹, K. Lee³, A. Jayaraman⁴, K. Allred², C. Allred², and J. A. Flaws¹.* ¹University of Illinois Urbana-Champaign, Urbana, IL; ²University of North Carolina Greensboro, Greensboro, NC; ³Tufts University, Medford, MA; and ⁴Texas A&M University, College Station, TX.
- #3215 **Poster Board Number D345**
Single Cell Transcriptomics Reveals that Hexavalent Chromium [Cr(VI)] Exposure During Pregnancy Disrupts Uterine Artery Remodeling by Altering the Extracellular Matrix Network. *V. V. Kolla¹, I. P. Saravanan¹, S. S. Romero¹, S. Gupta¹, S. Kluaiphanngam¹, S. Azzi¹, S. Krothapalli¹, E. Miller¹, O. Mohr¹, E. Quinones¹, T. K. Lamon², R. E. Rose², D. J. Boland³, J. N. Stallone⁴, J. Arosh¹, J. Cai¹, and S. K. Banu¹.* ¹Department of Veterinary Integrative Biosciences, College of Veterinary Medicine & Biomedical Sciences, Texas A&M University, College Station, TX; ²Comparative Medicine Program, Texas A&M University, College Station, TX; ³Texas A&M Institute of Genome Sciences & Society, Texas A&M University, College Station, TX; and ⁴Department of Veterinary Physiology & Pharmacology, College of Veterinary Medicine & Biomedical Sciences, Texas A&M University, College Station, TX.
- #3216 **Poster Board Number D346**
Characterization of tight junctions in a JEG3 cell-based human placental model, widely used in reproductive and developmental toxicity studies. *R. Hayashi, Y. Niwa, K. Ikeda, and M. Kondoh.* The University of Osaka, Suita, Japan. Sponsor: M. Kondoh, American Society for Pharmacology and Experimental Therapeutics
- #3217 **Poster Board Number D347**
Prenatal and Postnatal PFAS Exposure Induces Sex-Specific Hepatic and Reproductive Organ Hypertrophy in CD-1 Mice. *O. N. Avenbuan, M. Watt, T. Tzendzalian, E. Mattingly, and R. C. Fry.* University of North Carolina, Chapel Hill, NC.
- #3218 **Poster Board Number D348**
Cross-Laboratory Reproducibility and Age-Adapted Strategies for Learning and Memory Assessment in Rodents Using Morris and Biel Water Maze Paradigms. *D. S. Harischandra¹, S. Beck², J. Proctor-Clarke³, A. Hedge³, and P. Bushdid¹.* ¹Labcorp, Greenfield, IN; ²Labcorp, Eye, United Kingdom; and ³Labcorp, Harrogate, United Kingdom.
- #3219 **Poster Board Number D349**
The Functional Observational Battery in Rats - Results from a Positive Control Study to Support Crop Protection and Chemical Safety Studies. *S. A. Beck¹, A. Froud¹, S. Edwards¹, A. Hedge², and S. Renaut¹.* ¹Lapcorp, Eye, United Kingdom; and ²Lapcorp, Harrogate, United Kingdom. Sponsor: *D. Harischandra*
- #3220 **Poster Board Number D350**
Exploratory Assessment of Preconception Phthalate Exposure and its Impacts on Pregnancy and Offspring Health Outcomes in Mice. *M. Afghah, A. C. Elkins, P. C. Powell, M. E. Mulligan, M. C. Boland, A. P. Suggs, M. A. Walker, Z. J. Padgett, and K. D. Rock.* Clemson, Clemson, SC.
- #3221 **Poster Board Number D351**
Investigating the molecular mechanism of reproductive dysfunction caused by transgenerational BPA exposure. *I. Olaya, L. Truong, and P. Allard.* University of California, Los Angeles, Los Angeles, CA.

- #3222 **Poster Board Number D352**
Acute Exposure to Perfluorooctanoic Acid (PFOA) Disrupts Steroidogenesis and Mitochondrial Function in Granulosa Cells. D. Um, M. J. Laws, A. E. Dean, R. Santacruz Márquez, and J. A. Flaws. University of Illinois at Urbana-Champaign, Urbana, IL.
- #3223 **Poster Board Number D353**
Differences in placental gene expression by maternal demoralization. A. R. Grayon^{1,2}, E. C. Di Giuseppe², K. W. Riley², M. Caria², H. Hu², J. B. Herbstman², and M. A. Deyssenroth². ¹NYU Grossman School of Medicine, New York, NY; and ²Columbia University, New York, NY.
- #3224 **Poster Board Number D354**
Influence of *in utero* and/or lactational exposure to the antidepressant venlafaxine: late repercussions on reproductive and behavioral parameters in male Wistar rats. B. de Matos Manoel, S. Tawany Caetano Dos Santos, L. Cardoso Valente, L. Trippe Nagaoka, J. Stein, B. Campos Jorge, J. de Castro e Horta Júnior, and A. Arena. São Paulo State University, Botucatu, Brazil. Sponsor: W. Scarano
- #3225 **Poster Board Number D355**
Novel detection of legacy and emerging per- and polyfluoroalkyl substances (PFAS) in the follicular fluid of *in vitro* fertilization (IVF) patients from North Carolina. S. S. Boney¹, C. Christen², B. A. Wetmore², A. S. Murr², D. Raburn³, S. L. Young³, C. Abraham³, and T. E. Stoker². ¹NIEHS, Durham, NC; ²EPA, Durham, NC; and ³Duke Fertility Center, Durham, NC.
- #3226 **Poster Board Number D356**
Reproductive System Effects in Male C57Bl/6 Mice Exposed to Diesel Exhaust Particulate (DEP) and/or Desert Sand Dust (DSD). K. MacDonald, L. Schneider, and T. Brown. Defense Centers for Public Health-Aberdeen, Aberdeen Proving Grounds, MD.
- #3227 **Poster Board Number D357**
Pituitary Hormone Alterations and Inflammatory Responses Associated with Chronic Phthalate Exposure in Female Reproductive Aging. Y. V. Ojo, M. J. Laws, R. Santacruz Márquez, J. A. Flaws, and L. T. Raetzman. University of Illinois, Urbana, IL.
- #3228 **Poster Board Number D358**
Analyzing the Effects of Charged Oxygen Particle Radiation on the Ovaries of Female Mice. A. Pore¹, K. N. Leon Parada¹, G. Lawson², and U. Luderer¹. ¹University of California, Irvine, Irvine, CA; and ²University of California, Berkeley, Berkeley, CA.
- #3228a **Poster Board Number D359**
Diisononyl phthalate exposure increases *Cyp11a1* transcript localization in the antral follicle. A. E. Dean, R. Santacruz-Marquez, M. J. Laws, T. A. Seaton, and J. A. Flaws. University of Illinois Urbana-Champaign, Urbana, IL.

Monday, March 23, 9:15 AM to 11:45 AM, Exhibit Hall B, Convention Center

PS Poster Session: Chemical Threats and Bioterrorism

Chair(s): Cody Wilson, ExxonMobil Biomedical Sciences Inc.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 9:15 AM–11:45 AM

Abstract #

- #3229 **Poster Board Number** E360
Investigating the Involvement of Pyroptosis in Cutaneous Nitrogen Mustard Induced Toxicity. Z. Kelly, A. Roney, K. Murphy, A. Stammersky, and N. Tewari-Singh. Michigan State University, East Lansing, MI.
- #3230 **Poster Board Number** E361
NOD1/UPR Signaling Axis in the Pathogenesis of Acute Kidney Injury Following Inhalation of Arsine Gas Exposure. R. K. Srivastava, A. M. Traylor, J. Khan, S. Muzaffar, S. Esman, R. H. Soliman, J. Akhter, J. J. DeBerry, S. Bolisetty, A. Agarwal, and M. Athar. University of Alabama at Birmingham, Birmingham, AL.
- #3231 **Poster Board Number** E362
Phenylarsine Oxide Disrupts Mitochondrial Function and Redox Signaling in Human Keratinocytes. Y. Jan¹, B. B. Michniak-Kohn², L. B. Joseph³, and J. D. Laskin¹. ¹Department of Environmental and Occupational Health and Justice, School of Public Health, Rutgers University, Piscataway, NJ; ²Department of Pharmaceutics, Ernest Mario School of Pharmacy, Rutgers University, Piscataway, NJ; and ³Department of Pharmacology and Toxicology, Ernest Mario School of Pharmacy, Rutgers University, Piscataway, NJ.
- #3232 **Poster Board Number** E363
The Effect of Chemical Threat Agents on Corneal Nerve Injury and Related Biomarkers. A. Stammersky, E. Okoyeocha, C. McGreer, Y. Mohammad, S. Marks, S. Lundback, and N. Tewari-Singh. Michigan State University, Lansing, MI.
- #3233 **Poster Board Number** E364
Colony stimulating factor 1 receptor (CSF1R) inhibition mitigates the development of spontaneous recurrent seizures and alleviates neuropathology in adult female rats acutely intoxicated with diisopropylfluorophosphate (DFP). Y. Tsai, P. M. Andrew, M. A. Munoz, C. M. Unkel, B. P. Davis, J. A. MacMahon, P. N. Bernardino, D. A. Bruun, and P. J. Lein. University of California, Davis, Davis, CA.
- #3234 **Poster Board Number** E365
Mast Cells Shape Early Pulmonary Inflammation and Regulate the Abundance and Localization of Dendritic Cells after Chloropicrin Exposure. M. Gibb, A. Reinert, A. K. Bauer, and J. M. Brown. CU Anschutz Medical Campus, Aurora, CO.
- #3235 **Poster Board Number** E366
Comparison of Established and Experimental Skin Decontaminants Against the Nerve Agent VX in Rat Skin and a Three-Dimensional Bioartificial Human Skin Model. A. Schwab¹, D. Steinritz^{1,2}, T. Wille¹, and N. Amend^{1,2}. ¹Bundeswehr Institute of Pharmacology and Toxicology, Munich, Germany; and ²Walther-Straub-Institute of Pharmacology and Toxicology, Faculty of Medicine, Ludwig-Maximilians-Universität München, Munich, Germany.

- #3236 **Poster Board Number** E367
Evaluation of novel oximes as antidotes for an organophosphate requiring bioactivation in rats. *E. Meek, N. Busby, and J. Chambers.* Center for Environmental Health Sciences, College of Veterinary Medicine, Mississippi State University, Mississippi State, MS.
- #3237 **Poster Board Number** E368
Soluble epoxide hydrolase as a therapeutic target for mitigating the adverse neurological consequences of acute organophosphate intoxication. *M. A. Muñoz, J. A. MacMahon, D. A. Bruun, Y. H. Tsai, C. M. Unkel, B. P. Davis, N. H. Saito, D. J. Harvey, B. D. Hammock, and P. J. Lein.* University of California Davis, Davis, CA.
- #3238 **Poster Board Number** E369
Exploration of Mechanisms Driving Nitrogen Mustard-Induced Injury in Mouse Skin. *A. Roney¹, D. Goswami¹, E. Okoyeocha¹, K. Murphy¹, S. Lundback¹, O. Madadgar¹, E. Kim¹, Z. Kelly¹, S. Veluru¹, S. Ojha¹, A. Stammersky¹, S. Saha², E. Noland¹, J. Brown³, and N. Tewari-Singh¹.* ¹Michigan State University, East Lansing, MI; ²University of Kansas Medical Center, Kansas City, KS; and ³University of Colorado Anschutz Medical Campus, Aurora, CO.
- #3239 **Poster Board Number** E370
Characterization of Circulating miRNAs in Rodents after Pulmonary Exposure to Nitrogen Mustard. *C. J. Rogers¹, J. D. de Leon¹, L. Uechi¹, T. A. Miller¹, K. N. Vayas², E. Abramova², R. Rancourt², P. Zhou², V. R. Sunil², J. D. Laskin², and D. L. Laskin².* ¹ChromoLogic, Monrovia, CA; and ²Rutgers, The State University of New Jersey, Piscataway, NJ.
- #3240 **Poster Board Number** E371
Verapamil Protects Neurons Via NADPH Oxidase Inhibition in A Rat Model of Organophosphate DFP-Induced Status Epilepticus. *Y. Paudel, R. Blair, E. Hawkins, S. Kulkarni, and L. Deshpande.* Virginia Commonwealth University, Richmond, VA.
- #3241 **Poster Board Number** E372
Nitro-oleic Acid Mitigates Chlorine-Induced Lung Injury in Mice by Suppressing Pro-inflammatory Activity of Macrophages and Neutrophils. *R. Malaviya¹, A. J. Gow¹, B. Freeman², R. C. Rancourt¹, J. Radbel¹, E. Abramova¹, K. N. Vayas¹, J. D. Laskin¹, and D. L. Laskin¹.* ¹Rutgers University, Piscataway, NJ; and ²University of Pittsburgh, Pittsburgh, PA.
- #3242 **Poster Board Number** E373
Sulfur Mustard Alters Fatty Acid Synthase Expression During Rabbit Meibocyte Differentiation. *L. B. Joseph¹, P. Zhou¹, C. R. Crutch², and J. D. Laskin¹.* ¹Rutgers, The State University of New Jersey, Piscataway, NJ; and ²MRIGlobal, Kansas City, MO.
- #3243 **Poster Board Number** E374
Levels of novel oxime sufficient to counteract brain AChE inhibition by a sarin surrogate neither induce gene expression of nor inhibit metabolism by the human P450 isozymes CYP1A2, CYP2B6, and CYP3A4. *M. Dail, O. Ajisafe, and J. Chambers.* Mississippi State University, MS State, MS.
- #3244 **Poster Board Number** E375
Idebenone Treatment Reduces Nitrogen Mustard Induced Mitochondrial Dysfunction in Lung Epithelial Cells. *R. C. Canfield¹, M. Gibb¹, A. A. Date², and J. M. Brown¹.* ¹University of Colorado Anschutz Medical Campus, Aurora, CO; and ²University of Arizona, Tucson, AZ.
- #3245 **Poster Board Number** E376
Sulfur Mustard Disrupts Epidermal and Dermal Structures in Hairless Guinea Pig Skin. *K. Ozkuyumcu¹, D. Weinstock¹, P. Zhou¹, C. R. Crutch², J. D. Laskin¹, and L. B. Joseph¹.* ¹Rutgers University, New Brunswick, NJ; and ²MRIGlobal, Kansas City, MO.

- #3246 **Poster Board Number** E377
Dexamethasone treatment alleviates lewisite-induced delayed proteomic dysregulations, inflammation, and fibrosis in the rabbit cornea *in vivo*. R. Kant, N. Mishra, L. Saba, C. Agarwal, and R. Agarwal. Department of Pharmaceutical Sciences, University of Colorado Anschutz Medical Campus, Aurora, CO.
- #3247 **Poster Board Number** E378
Post-exposure inhibition of IL-1 β signaling delays the onset of spontaneous recurrent seizures (SRS) and improves cognitive impairment in adult male Sprague-Dawley rats acutely intoxicated with the organophosphate (OP), diisopropylfluorophosphate (DFP). C. Unkel, Y. Tsai, M. Munoz, B. Davis, D. Bruun, and P. Lein. University of California, Davis, Davis, CA.
- #3248 **Poster Board Number** E379
Systemic and Pulmonary Effects of Acute Chlorine Exposure in a Preclinical Rat Model. G. Jadhav, A. J. Johns, W. Nasser, N. Fatima, I. A. Khalid, A. E. Faquih, I. Zafar, A. Ahmad, and S. Ahmad. University of Alabama at Birmingham, Birmingham, AL.
- #3249 **Poster Board Number** E380
Phosgene inhalation in swine: reproducible ARDS phenotype and systems proteomics to guide countermeasure discovery. S. Achanta¹, M. Foster¹, G. Clair², V. Lin², S. Jordt¹, and W. Holmes³. ¹Duke University School of Medicine, Durham, NC; ²Pacific Northwest National Laboratory, Richland, WA; and ³United States Army Medical Research Institute of Chemical Defense, Aberdeen Proving Ground, MD.

Monday, March 23, 9:15 AM to 11:45 AM, Exhibit Hall B, Convention Center

PS Poster Session: Dermal Toxicology

Chair(s): Kristin Noell Harris, Mary Kay Inc.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 9:15 AM–11:45 AM

Abstract #

- #3250 **Poster Board Number** E382
Cytotoxicity screening in primary human epidermal keratinocytes and dermal fibroblasts. E. Hoffman¹, K. Grady², and A. Sharma¹. ¹Lonza Durham, Morrisville, NC; and ²Lonza Walkersville Inc., Walkersville, MD. Sponsor: K. Dunnick
- #3251 **Poster Board Number** E383
A retrospective study on the use of Local Lymph Node Assay EC3 values to derive doses for the Confirmation of No Induction in Humans test. M. A. Guttenberg¹, I. Lee¹, M. Na², M. Lavelle¹, I. Schember¹, and A. Api¹. ¹Research Institute for Fragrance Materials, Mahwah, NJ; and ²Estee Lauder Companies, Melville, NY.
- #3252 **Poster Board Number** E384
Outside the validated range: Performing a Weight of Evidence (WoE) assessment of the skin sensitization potential for fragrance chemicals positive at high concentrations in the Local Lymph Node Assay (LLNA). M. M. Lavelle¹, A. Natsch², I. Lee¹, I. Schember¹, J. Muldoon¹, H. Moustakas¹, and A. Api¹. ¹Research Institute for Fragrance Materials, Inc., Mahwah, NJ; and ²Givaudan Suisse SA, Kempthal, Switzerland.

- #3253 **Poster Board Number E385**
Skin sensitization risk assessment using a machine learning model that considers aggregate exposure to cosmetic products. T. Ashikaga¹, T. Yamada², H. Iwasa³, K. Hatano³, N. Nakamura³, K. Kinoshita⁴, J. Tokunaga⁴, R. Satake⁴, W. Murasaki⁴, and K. Ambe⁵. ¹National Institute of Health Sciences, Kawasaki, Japan; ²National Institute of Health Sciences, Division of Cellular and Molecular Toxicology, Kawasaki, Japan; ³General Research & Development Institute, Hoya Co., Ltd., Nagakute, Japan; ⁴Department of Regulatory Science, Graduate School of Pharmaceutical Sciences, Nagoya City University, Nagoya, Japan; and ⁵Graduate School of Data Science, Nagoya City University, Nagoya, Japan.
- #3254 **Poster Board Number E386**
Investigation of the applicability of a new consensus *in silico* model for predicting skin sensitization using combined alternative approaches methods. R. Murakami¹, M. Imamura², M. Tateshita¹, and Y. Hikida¹. ¹Fujifilm Corporation, Imaging & Informatics Laboratories, Tokyo, Japan; and ²Fujifilm Corporation, Safety Evaluation Center, Kanagawa, Japan. Sponsor: R. Murakami, Japanese Society of Toxicology
- #3255 **Poster Board Number E387**
Me-Too Validation of the Epi2SensA Method Using EpiDerm™ Model for Skin Sensitization Testing Under OECD TG442D. C. Pellevoisin^{1,2}, H. Kojima^{3,4}, S. Hoffmann⁵, T. Ashikaga⁶, T. Landry¹, C. Romero¹, K. Guntur¹, M. Klausner¹, J. Stadnicki¹, H. Gehrke⁷, R. Mills-Goodlet⁷, N. Panousi⁷, V. J. Johnson⁸, K. Narita⁹, S. Tachibana⁹, K. Kojima⁹, and A. Armento¹. ¹MatTek Corporation, Ashland, MA; ²Urbilateria, Saint Cyr sur Loire, France; ³Sanyo-Onoda City University, Yamaguchi, Japan; ⁴NIHS, Kawasaki, Japan; ⁵Seh Consulting + Services, Paderborn, Germany; ⁶NIHS/JaCVAM, Kawasaki, Japan; ⁷Eurofins, Munich, Germany; ⁸Burleson Research Technologies, Morrisville, NC; and ⁹FDSC, Hadano, Japan.
- #3256 **Poster Board Number E388**
Interpreting *In Vitro* Permeation Testing Layer-Deposition Data Using a Mechanistic Skin Model in MoBi. A. Salminen, J. Willoughby, and J. McKim. LifeNet Health LifeSciences, Virginia Beach, VA.
- #3257 **Poster Board Number E389**
Next Generation Risk Assessment Case Study: A Quantitative Machine Learning Approach for Skin Sensitization in Oxidative Hair Dyes. R. Satake¹, J. Tokunaga¹, K. Kinoshita¹, H. Iwasa², K. Hatano², N. Nakamura², H. Arakawa¹, T. Yamada³, T. Ashikaga⁴, and K. Ambe⁵. ¹Department of Regulatory Science, Graduate School of Pharmaceutical Sciences, Nagoya City University, Nagoya, Japan; ²General Research & Development Institute, Hoya Co., Ltd., Nagakute, Japan; ³National Institute of Health Sciences, Division of Cellular and Molecular Toxicology, Kawasaki, Japan; ⁴National Institute of Health Sciences, Division of Genome Safety Science, Kawasaki, Japan; and ⁵Graduate School of Data Science, Nagoya City University, Nagoya, Japan.
- #3258 **Poster Board Number E390**
Skin sensitization assessment of recycled plastics for consumer product based on dermal sensitization threshold and *in vitro* testing methods. S. Suzuki¹, M. Haneoka², K. Saito¹, H. Mizumachi¹, and Y. Ito¹. ¹Kao Corporation, Tochigi, Japan; and ²Kao Corporation, Kawasaki, Japan. Sponsor: S. Suzuki, Japanese Society of Toxicology
- #3259 **Poster Board Number E391**
Multi-Endpoint Characterization of ArtSkin®-RhE for Detecting Retinoic Acid-Induced Skin Irritation and Barrier Dysfunction. S. Lee¹, S. Moon¹, K. Lim², and T. Kwak¹. ¹NEXT&BIO Inc., Seoul, Korea, Republic of; and ²College of Pharmacology, Ewha Womans University, Seoul, Korea, Republic of.

- #3260 **Poster Board Number** E392
Metabolomics analysis of human keratinocyte response to chemical allergens.
 C. Zimmer¹, K. Hardonnière¹, F. Castelli², E. Chu-Van², C. Chollet², *M. Pallardy*¹, F. Fenaille², and S. Kerdine-Römer¹. ¹Université Paris-Saclay, Inserm, UMR-996, Orsay, France; and ²Université Paris-Saclay, CEA, INRAE, DMTS, MetaboHUB, Gif-sur-Yvette, France.
- #3261 **Poster Board Number** E393
Assessment of skin barrier function: A comparison of transepidermal water loss (TEWL) and skin absorption studies. E. Subileau, B. Lopez, T. Yon, E. Schaefer, C. Le Saint Quinio, P. El Azzi, and C. Chesné. Wepredic, Rennes, France. Sponsor: *M. Pallardy*
- #3262 **Poster Board Number** E394
Human skin equivalents reveal multiple cell death modes in mustard agent-induced dermal injury. C. Gaviria, S. Ahmad, C. Anthony, L. Morris, and P. McNutt. Wake Forest University School of Medicine, Winston Salem, NC.
- #3263 **Poster Board Number** E395
Doxorubicin-induced skin vascular permeability: a potential mechanism for cutaneous toxicities. A. Barnes¹, Y. Li¹, G. Wang¹, H. Gaikwad¹, L. Lofchy¹, R. Kant¹, S. Agrawal¹, N. Mishra¹, R. Agarwal¹, S. Goel², T. Anchordoquy¹, and D. Simberg¹. ¹Department of Pharmaceutical Sciences, Skaggs School of Pharmacy and Pharmaceutical Sciences, University of Colorado, Anschutz Medical Campus, Aurora, CO; and ²Department of Molecular Pharmaceutics, College of Pharmacy, University of Utah, L.S. Skaggs Pharmacy Institute, Salt Lake City, UT.
- #3264 **Poster Board Number** E396
Exercises in Applying Chemical Class Skin Sensitization Hazard Determinations.
 S. R. Larch¹, T. W. Dugan, M.S.¹, R. C. Ticknor, M.S., ERT², I. Hadley, M.S.¹, I. Mohar, Ph.D., DABT², and T. A. Lewandowski, Ph.D., DABT, ERT, ATS². ¹Gradient, Boston, MA; and ²Gradient, Seattle, WA.
- #3265 **Poster Board Number** E397
Reapplication of the Type IV Hypersensitivity Quantitative Risk Assessment to Assess Ingredients Used on Canines. A. T. McDermott¹, G. Lorch², J. Nash¹, and P. Kern³. ¹Procter & Gamble, Mason, OH; ²Department of Dermatology, MedVet Columbus, Worthington, OH; and ³Procter and Gamble Services Company, Strombeek-Bever, Belgium.
- #3266 **Poster Board Number** E398
Optimization of the Human Cell Line Activation Test (h-CLAT) for the Identification of Photo-Allergens. J. Phillips¹, A. Islas-Robles¹, G. Ritacco², A. Hilberer¹, C. Deodhar², V. Lough¹, C. Cheng¹, K. Dailey¹, B. Ly¹, D. J. Boltelho², and A. M. Api². ¹Institute for In Vitro Sciences, Gaithersburg, MD; and ²The Research Institute for Fragrance Materials, Mahwah, NJ.
- #3267 **Poster Board Number** E399
Hyposkin as a human-based NAMs platform for local toxicity and formulation safety assessment. J. Magerman¹, K. Polak², O. Binazon¹, A. Ochando², and J. Baumeister¹. ¹Argenx bvba, Zwijnaarde, Belgium; and ²Genoskin, Toulouse, France. Sponsor: A. Ochando Descargues, EUROTOX
- #3268 **Poster Board Number** E400
Microfluidic co-culture of iPSC-derived sensory neurons and human melanocytes demonstrates neuron-melanocyte interactions relevant to melanogenic pathways and neurocutaneous toxicology. V. Chakravarty¹, S. Dhepe¹, N. Salman², R. Chandratike¹, N. Ftaich², K. Rajendran¹, T. Honegger², P. Bhanushali¹, and A. Khanna¹. ¹Yashraj Biotechnology Ltd, Navi Mumbai, India; and ²NETRI, Lyon, France.

PS Poster Session: Stem Cell Biology and Toxicology

Chair(s): Mark Daley, Lafayette College.

Displayed: 9:00 AM–4:30 PM | Author Attended: 9:15 AM–11:45 AM

Abstract #

- #3269 **Poster Board Number E407**
Advanced Human-Based *In Vitro* Models for assessing Cardiac Toxicity and Arrhythmia Mechanisms. R. J. Knox. Nanion Technologies Inc, Livingston, NJ. Sponsor: E. Dragicevic, Safety Pharmacology Society
- #3270 **Poster Board Number E408**
Human iPSC-Derived Mammary Gland Organoids for Non-Genotoxic Carcinogen Hazard Assessment. R. R. Nair¹, P. Bouwman¹, B. van de Water¹, M. Ganne², and C. Scheele². ¹Leiden Academic Centre for Drug Research, Leiden University, Leiden, Netherlands; and ²VIB-KU Leuven, Center for Cancer Biology, Leuven, Belgium.
- #3271 **Poster Board Number E409**
IPS-KOM : Immunocompetent Kidney Organoids as an Advanced *in vitro* Model for Immune-related Kidney Injury. L. Wijaya¹, S. van Veen¹, V. Orlova², and B. van de Water¹. ¹Leiden University, Leiden, Netherlands; and ²Leiden University Medical Center, Leiden, Netherlands.
- #3272 **Poster Board Number E410**
p,p'-DDE Induces an Epidermal Phenotype and Perturbs Cell State and Stem Cell Markers in Mammospheres. J. L. Miller¹, A. Tapaswi¹, J. W. Wotring², K. M. Polemi¹, L. K. Svoboda¹, J. Z. Sexton², and J. A. Colacino¹. ¹University of Michigan School of Public Health, Ann Arbor, MI; and ²University of Michigan, Department of Medicinal Chemistry, Ann Arbor, MI.
- #3273 **Poster Board Number E411**
Flame Retardant Triphenyl Phosphate Induces Genetically Variable Exposure Responses in Mouse Pluripotent Stem Cells. M. Armstrong^{1,2}, K. Janeczko¹, H. Dewey^{1,2}, A. Czechanski¹, Q. Chen¹, E. Swanzey¹, C. O'Connor^{1,2}, S. Munger^{1,2}, and L. Reinholdt^{1,2}. ¹The Jackson Laboratory, Bar Harbor, ME; and ²Tufts University, Boston, MA.
- #3274 **Poster Board Number E412**
Isolation and Culture of Human Bone Marrow MSC Under Unbroken Physioxia for Better Cell Growth and Translatability of Studies. A. D. Henn, S. L. Darou, C. E. Gbegbeawu, and S. A. Mustafa. BioSpherix, Parish, NY. Sponsor: A. Henn, American Association for Cancer Research
- #3275 **Poster Board Number E413**
Cannabidiol and Δ^9 -Tetrahydrocannabinol alters *in vitro* human hematopoiesis. D. M. Khan, R. B. Crawford, and N. E. Kaminski. Michigan State University, East Lansing, MI.
- #3276 **Poster Board Number E414**
Electronic Cigarette Flavor Chemicals and Synthetic Coolants Disrupt Critical Processes in Human Embryonic Stem Cells Through TRP-Mediated Calcium Dysregulation. S. Etemadi, and P. Talbot. University of California Riverside, Riverside, CA.

#3277 **Poster Board Number** E415
New Approach Methodologies (NAMs): Assessing cardiotoxicity and neurotoxicity *in vitro* using human iPSC-derived cells. J. R. Bhagwan¹, F. Régent², J. Tilman¹, K. Gillois², B. Lickiss³, J. Hunker³, M. Gossmann³, D. Wallbank¹, and B. Onteniente². ¹Axol Bioscience, Cambridge, United Kingdom; ²Axol Bioscience, Grasse, France; and ³Innovitro GmbH, Jülich, Germany.

Monday, March 23, 1:45 PM to 4:15 PM, Exhibit Hall B, Convention Center

PS Poster Session: Endocrine Toxicology

Chair(s): Yinka Ojo, University of Illinois at Urbana-Champaign; and Leah Zorrilla, Bayer AG.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 1:45 PM–4:15 PM

Abstract #

#3278 **Poster Board Number** E416
Potential Impact of Anion Channels on the Interpretation of NIS Assay Results in the Fisher Rat Thyroid Cells (FRTL-5). M. Battalora¹, P. Paramasivan², R. S. Sharma², V. S. Gawali³, J. S. Bhalli³, I. Wohlman¹, and H. McCarren¹. ¹FMC Agricultural Solutions, Newark, DE; ²Concept Life Sciences, Dundee, United Kingdom; and ³Frontage Laboratories, Concord, OH.

#3279 **Poster Board Number** E417
Monitoring Thyroid Hormone Action in Human Hepatocytes and Evaluating Chemical Exposure Effects to Support Thyroid Disruption Safety Assessment. C. Wang, S. Caron, M. Adams, K. Gardner, and B. Johnson. Michigan State University, East Lansing, MI.

#3280 **Poster Board Number** E418
Multimodal preclinical screening of glucocorticoid-induced disruption of bone remodeling in rat. A. Tuladhar, C. Carter, E. Vaughan, M. Voorbach, S. Biswas, T. Brayman, P. Kumar, A. Marinopoulos, X. Huang, S. Finnema, R. Christmann, T. vanVleet, B. Enright, M. Guffroy, and S. Fossey. AbbVie, North Chicago, IL.

#3281 **Poster Board Number** E419
Impact of climate change on the estrogenic activities of paraquat. I. M. Omoruyi^{1,2}, U. E. Osemwowa², O. Uyi³, and R. Pohjanvirta⁴. ¹Benson Idahosa University, Benin City, Nigeria; ²University of Helsinki, Finland, Helsinki, Finland; ³University of Georgia, Athens, GA; and ⁴University of Helsinki, Finland, Finland, Finland. Sponsor: J. Flaws

#3283 **Poster Board Number** E421
Quercetin enhances steroidogenesis in mouse Leydig cells MLTC-1 and I-10 exposed to atrazine. H. Elkady, S. Fierro, and P. Bu. St. John's University College of Pharmacy and Health Sciences, Queens, NY.

#3284 **Poster Board Number** E422
Long-term exposure to a phthalate mixture reprograms white and brown adipose tissue phenotypes through estrogen signaling pathways in female mice. F. Farias dos Santos^{1,2}, K. R. Eskridge³, M. J. Laws¹, J. A. Flaws¹, and J. B. Graceli^{3,2}. ¹University of Illinois, Urbana, IL; ²Federal University of Espirito Santo, Vitoria, Brazil; and ³Southern Illinois University, Carbondale, IL.

- #3285 **Poster Board Number E423**
In life low-volume sampling and bioanalysis of thyroid hormones on a short-term mode of action study in Han Wistar rats: 6-PTU case study. H. Myles¹, S. Renaut¹, E. Moore¹, S. Totti², L. Youngs², C. C. Lord³, P. Whalley², and D. Cowie². ¹Labcorp Early Development Laboratories Ltd., Huntingdon, United Kingdom; ²Syngenta Jealott's Hill International Research Centre, Bracknell, United Kingdom; and ³Syngenta Crop Protection, LLC, Greensboro, NC.
- #3286 **Poster Board Number E424**
Thyroxine (T4) and Triiodothyronine (T3): Validation of Methodology for the Determination of Concentrations in Surrogate Matrix and Serum Using Low Sample Volumes. S. Brewin¹, and E. Moore². ¹Labcorp Early Development Laboratories Limited, Occold, United Kingdom; and ²Labcorp Early Development Laboratories Limited, Huntingdon, United Kingdom.
- #3287 **Poster Board Number E425**
Nonylphenol and Cetyl Alcohol Polyethoxylates Disrupt Thyroid Hormone Receptor Signaling to Promote Adipogenic and Obesogenic Effects. D. R. McGrail, R. Berube, B. Murray, M. LeFauve, S. Heldman, T. A. Kocarek, and C. D. Kassotis. Wayne State University, Detroit, MI.
- #3288 **Poster Board Number E426**
Multi-model predictions of potential endocrine disruptors in cosmetic ingredients: Comparing *in vivo* and *in vitro* data to *in silico* predictions. G. O. Corrêa¹, N. A. Abreu¹, A. Falcão², C. Bavoux³, A. D. Canavez¹, and D. C. Schuck¹. ¹Grupo Boticário, Paraná, Brazil; ²Aima Toxicology, São Paulo, Brazil; and ³Cehtra, Saint Ouen, France.
- #3289 **Poster Board Number E427**
Beyond the Score: Integrating flags for interpreting the ToxCast AR Pathway Model and how it can refine next steps. A. Karmaus¹, C. Koenig², B. Riffle³, A. Charlton¹, and S. Marty⁴. ¹Syngenta Crop Protection, LLC, Greensboro, NC; ²Corteva Agriscience, Indianapolis, IN; ³BASF Agricultural Solutions US, LLC, RTP, NC; and ⁴Dow Chemical, Midland, MI.
- #3290 **Poster Board Number E428**
L-type voltage gated calcium channel blocker nifedipine blocks MIN6 cell depolarization with or without diphenhydramine; a live-cell fura-2 fluorescence imaging study. E. Herr, P. Lamar, and J. Edwards. Midwestern University, Downers Grove, IL.
- #3291 **Poster Board Number E429**
Decoding Fenbuconazole Toxicity: Linking *In Vivo* and *In Vitro* Evidence. C. Koenig¹, J. Lagonell², and J. Olson². ¹Corteva Agriscience, Indianapolis, IN; and ²Corteva Agriscience, Newark, DE.
- #3292 **Poster Board Number E430**
LC-MS/MS-Based Deiodinase (DIO1, DIO2, DIO3) Inhibition Assays: Validation and Application to Human DIO1 Proficiency Testing for Endocrine Disruption Assessment. R. S. Sharma, M. Gibson, D. Lee, and A. Augello. Concept Life Sciences, Dundee, United Kingdom. Sponsor: R. Sharma, EUROTOX
- #3293 **Poster Board Number E431**
Robustness and Predictive Utility of the TruVivo® T4 Glucuronidation Assay in Primary Hepatocytes for Regulatory Safety Evaluation. A. Raza¹, A. Salminen², S. Kellum¹, J. Dong¹, J. Brown¹, A. Negusse¹, J. Willoughby², E. LeCluyse², J. LaRocca³, L. Kent⁴, M. Corvaro⁵, R. Settivari¹, and S. M. Catalano¹. ¹Conteva AgriScience, Newark, DE; ²LifeNet Health LifeSciences, Kalamazoo, MI; ³Conteva AgriScience, Indianapolis, IN; ⁴Conteva AgriScience, Oxford, United Kingdom; and ⁵Conteva AgriScience, Cremona, Italy.

- #3294 **Poster Board Number E432**
Assessing different *in vitro* hepatocyte models using *in vitro* to *in vivo* extrapolation to predict liver-mediated thyroid hormone clearance in rats. B. Bhattacharya¹, H. Tinwell², C. Lopez Zazueta², A. Raza¹, R. Ghaffari¹, J. McKenna¹, Z. Sutake¹, E. Bianchi¹, and J. LaRocca¹. ¹Corteva Agriscience, Indianapolis, IN; and ²Bayer SAS, Lyon, France.
- #3295 **Poster Board Number E433**
Predictive *in silico* assessment of endocrine-disrupting activity in bioactive peptides. J. Marquez-Lazaro, A. M. Marrugo-Padilla, A. Barbosa-Torres, A. Bru-Reason, and R. Ramos-Bastidas. Corporación Universitaria Rafael Núñez, Cartagena, Colombia.
- #3296 **Poster Board Number E434**
Luteolin promotes steroidogenesis in I-10 mouse Leydig cells exposed to atrazine. M. Dawod, A. Siddiqi, and P. Bu. St. John's University College of Pharmacy and Health Sciences, Queens, NY.
- #3297 **Poster Board Number E435**
Endocrine disrupting effects of jet fuel: Changes in rodent estrous cycle and ovary size after 6-month oral exposure. L. Olsen, N. Gargas, V. Ethridge, K. Mumy, W. Howard, and J. Rohan. Naval Medical Research Unit Dayton, Wright-Patterson AFB, OH.
- #3298 **Poster Board Number E436**
Associations Between Co-Exposure to Environmental Toxins and Type 2 Diabetes in U.S. Adults: Insights from NHANES on Perchlorate, Nitrate, and Thiocyanate. N. Keddari¹, and Z. Qiao². ¹Zhengzhou University, Zhengzhou, Henan, China; and ²Zhengzhou University, Zhengzhou, Henana, China. Sponsor: N. Keddari, American College of Toxicology
- #3299 **Poster Board Number E437**
Integrated Liver-Thyroid *In Vitro* System for Predicting Human-Relevant Thyroid Disruptors. E. Bianchi, K. Johnson, Z. Sutake, J. McKenna, W. Chen, J. LaRocca, and S. Gehen. Corteva Agriscience™, Indianapolis, IN.
- #3300 **Poster Board Number E438**
***In Vitro* assessment of AhR/CAR/PXR activators within the thyroid endocrine disruption (T-) modality framework: Implications for human relevance.** A. Baze¹, B. Ory¹, L. Wiss¹, A. Schäfer¹, C. Chanel¹, C. Guicheney¹, K. Biemel², and L. Asselin¹. ¹KaLy-Cell, Plobsheim, France; and ²Pharmacelsus, Saarbrücken, Germany. Sponsor: C. Guicheney, EUROTOX
- #3301 **Poster Board Number E439**
Differentiating Thyroid Modes of Action in Short-Term Rodent Toxicity Studies Using Toxicogenomics. C. C. Lord¹, S. Totti², L. Youngs², J. P. Rooney¹, L. B. Doonan², A. Kende², L. Swindale², and D. E. Cowie². ¹Syngenta Crop Protection, LLC, Greensboro, NC; and ²Syngenta Ltd., Jealott's Hill International Research Centre, Bracknell, United Kingdom.
- #3302 **Poster Board Number E440**
Phenotypic and transcriptomic consequences of deiodinase 3a, 3b mutations in developing zebrafish. G. H. Casciano¹, J. Cavallin¹, K. Jensen¹, P. Schumann¹, P. Shankar², E. Timmerman³, and D. Villeneuve⁴. ¹Oak Ridge Institute for Science and Education, Duluth, MN; ²US Geological Survey, Seattle, WA; ³SpecPro Sustainment and Environmental, Duluth, MN; and ⁴US EPA, Duluth, MN.
- #3303 **Poster Board Number E441**
Developing A Curated Resource of Rodent Pubertal Studies in Support of the US EPA Endocrine Disruptor Screening Program (EDSP). J. Abedini. US EPA, Durham, NC.

PS Poster Session: Risk Assessment I

Chair(s): Sachin Bhusari, Coca-Cola Company; and Jay Harriman, Boehringer Ingelheim Pharmaceuticals Inc.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 9:15 AM–11:45 AM

Abstract #

- #3304 **Poster Board Number F444**
Application of a NOAEL and LOAEL Boundary Approach to Identify a Point of Departure for Derivation of Minimal Risk Levels for Hazardous Substances. *K. Zaccaria¹, J. Klotzbach¹, R. Benedict², C. Muianga², B. Alman², F. Atif², F. Scinicariello², B. Szafran², and G. Diamond¹.* ¹SRC, Liverpool, NY; and ²The Agency for Toxic Substances and Disease Registry (ATSDR), Office of Innovation and Analytics (OIA), Atlanta, GA.
- #3305 **Poster Board Number F445**
Framework for Intracochlear Accepted Daily Intake Determination for Human Health Risk Assessment. *C. Callis¹, R. Jolly¹, L. Cooper¹, E. Andres-Mateos¹, M. Willming², A. Maier³, and E. S. Fung⁴.* ¹Eli Lilly & Company, Indianapolis, IN; ²Integral Consulting, Boise, ID; ³Integral Consulting, Cincinnati, OH; and ⁴Integral Consulting, Los Angeles, CA.
- #3306 **Poster Board Number F446**
Using a Framework Approach to Determine Parenteral Accepted Daily Intake for Benzonase. *R. Jolly¹, C. Callis¹, L. Cooper¹, P. Cornwell¹, M. Willming², A. Maier³, and E. S. Fung⁴.* ¹Eli Lilly & Company, Indianapolis, IN; ²Integral Consulting, Boise, ID; ³Integral Consulting, Cincinnati, OH; and ⁴Integral Consulting, Los Angeles, CA.
- #3307 **Poster Board Number F447**
Risk Assessment and Pharmacokinetic Modeling of Incidental Ingestion of Ethanol from Mouthwash. *D. G. Kougas¹, M. Kovoichich¹, S. Ejaz², A. Najjar³, S. Nair², B. Michelin⁴, C. Chu², and M. D. Southall².* ¹K2 Toxicology and Integrated Risk Assessment, LLC, Las Vegas, NV; ²Kenvue Medical Clinical and Safety Sciences, Summit, NJ; ³Beiersdorf AG, Hamburg, Germany; and ⁴Kenvue Regulatory Affairs, Val-de-Reuil, France.
- #3308 **Poster Board Number F448**
Quantitative Risk Assessment for t-Butyl Alcohol in Drinking Water. *A. Sleiman, B. Lampe, P. Jewell, and T. D. Vincent-Hall.* NSF, Ann Arbor, MI.
- #3309 **Poster Board Number F449**
Derivation of an oral reference dose and drinking water criteria for lithium. *B. J. Lampe, S. Sriram, and T. J. Vincent-Hall.* NSF, Ann Arbor, MI.
- #3310 **Poster Board Number F450**
Identification of Proposition 65 MADLs for Methyl Chloride. *J. Lee, J. Ator, and M. H. Whittaker.* ToxServices LLC, Ann Arbor, MI.
- #3311 **Poster Board Number F451**
Establishment of Proposition 65 maximum allowable dose levels (MADLs) for ethylene dibromide. *J. Ator, B. Wang, and M. H. Whittaker.* ToxServices LLC, Washington, DC.
- #3312 **Poster Board Number F452**
Consideration of Carcinogenicity and Mode of Action Information by an Independent Expert Panel to Support Derivation of No-Significant-Risk-Level Values for Vinyl Acetate Monomer. *C. R. Kirman, and S. M. Hays.* SciPinion, Bozeman, MT.

- #3313 **Poster Board Number** F453
Confidently determining reliable intake limits from robust carcinogenicity studies.
 S. O. Odebamowo, G. Kocks, D. J. Ponting, and A. Thresher. Lhasa Limited, Leeds, United Kingdom.
- #3314 **Poster Board Number** F454
Systematic Evaluation of the Carcinogenic Potential of Di-isononyl Phthalate in Humans.
 A. N. Buerger¹, I. A. Lea², M. J. Vincent¹, B. N. Rivera³, N. Y. Choksi², J. Britt⁴, S. Fitch⁵, S. Rogers³,
 H. Schaefer⁶, L. Haws⁵, H. Nyambogo⁷, C. M. Palermo⁸, D. Wikoff³, and S. J. Borghoff². ¹ToxStrategies
 LLC, Cincinnati, OH; ²ToxStrategies LLC, Research Triangle Park, NC; ³ToxStrategies LLC, Asheville,
 NC; ⁴ToxStrategies LLC, Tallahassee, FL; ⁵ToxStrategies LLC, Katy, TX; ⁶ToxStrategies LLC, Annapolis,
 MD; ⁷ExxonMobil Biomedical Sciences, Inc., Spring, TX; and ⁸ExxonMobil Biomedical Sciences, Inc.,
 Annandale, NJ.
- #3315 **Poster Board Number** F455
Setting Occupational Exposure Limits (OELs) for Carcinogens: A Focus on Benzene.
 M. Pedrozo¹, and M. M. Paoliello². ¹Lisam Eoadvisor, São Paulo, Brazil; and ²Albert Einstein College
 of Medicine, Bronx, NY.
- #3316 **Poster Board Number** F456
**Establishing an Endogenous Threshold for AICAR to Support NSF Certified for Sport®
 Compliance.** S. L. Cousineau¹, K. A. Magurany², J. C. Travis¹, C. C. McGuire¹, A. N. Jureziz¹, and
 T. D. Vincent-Hall¹. ¹NSF, Ann Arbor, MI; and ²Verto Solutions, LLC (formerly NSF), Washington, DC.
- #3317 **Poster Board Number** F457
**Database calibrated toxicity values for human health assessment based on existing
 toxicology data for one thousand chemicals.** D. Krewski¹, S. Hagiwara², C. A. Weitekamp³,
 J. T. Wall³, P. C. Stanish², K. Paul Friedman³, G. Paoli², and R. S. Thomas³. ¹University of Ottawa,
 Ottawa, ON, Canada; ²Risk Sciences International, Ottawa, ON, Canada; and ³UL Research
 Institutes, Marietta, GA.
- #3318 **Poster Board Number** F458
**Component-based toxicological screening of spearmint (*Mentha spicata*) aerial parts
 essential oil and safe-supported exposure limits for humans.** J. T. Dawson, S. A. Shah,
 D. T. Carter, D. I. Saavedra, A. Poudel, P. Satyal, and C. Bascoul. Doterra International, Pleasant
 Grove, UT. Sponsor: C. Mitchell
- #3319 **Poster Board Number** F459
**A physiologically-based pharmacokinetic (PBPK)/pharmacodynamic (PD) model for rats
 and humans for the insecticide acephate.** R. Reiss¹, A. Locissano¹, M. Schutte², J. Mehta², and
 R. Kapre². ¹Exponent, Alexandria, VA; and ²ADAMA, Cologne, Germany.
- #3320 **Poster Board Number** F460
**Quantifying Variability in Chemical Sensitivity Attributable to Social Non-Chemical
 Stressors: an Approach Using a Systematic Review of Human Studies.** R. Thilakaratne¹,
 J. Trowbridge², C. Ortiz², E. Delker¹, R. Joglekar², L. August¹, and T. Woodruff². ¹CalEPA/OEHHA,
 Oakland, CA; and ²Program on Reproductive Health and the Environment, San Francisco,
 CA. Sponsor: H. Bolstad
- #3321 **Poster Board Number** F461
**Human Health Risk Evaluation of Pesticide Residues on Fresh Fruits and Vegetables in
 California: An Integrated Statewide Monitoring and Enforcement Program.** D. J. Bonnar,
 J. Adragna, B. Brown, B. Darsie, P. Dodmane, Q. Dong, M. C. Geier, A. Kalashnikova, A. L. Rubin,
 S. Tiscione, C. Zhang, M. Armstrong, P. N. Lohstroh, S. E. Koshlukova, and S. DuTeaux. Department of
 Pesticide Regulation, California Environmental Protection Agency, Sacramento, CA.
- #3322 **Poster Board Number** F462
**Assessment of cigarette smoke related lung cancer risk based on duration of exposure
 to potent cohort of concern substances.** Z. Weng, V. Singh, M. Weng, and T. Preble. Clarkstown
 High School South, West Nyack, NY.

- #3323 **Poster Board Number** F463
Comprehensive Toxicological Evaluation of a Novel E-Vapor Product Using a Multi-Tiered Risk Assessment Framework. *F. Gravino, F. Zanetti, F. Vonmoos, S. Majeed, E. Gottardo, A. Stucky, P. Pratte, and D. Sciuscio.* Philip Morris International, Neuchatel, Switzerland.
- #3324 **Poster Board Number** F464
Mode of action and human relevance assessment for diisononyl phthalate (DINP)-induced liver tumors in rodents. *A. N. Buerger¹, M. M. Heintz², L. C. Haws³, H. Nyambego⁴, C. M. Palermo⁵, and C. M. Thompson³.* ¹ToxStrategies LLC, Cincinnati, OH; ²ToxStrategies LLC, Asheville, NC; ³ToxStrategies LLC, Katy, TX; ⁴ExxonMobil Biomedical Sciences, Spring, TX; and ⁵ExxonMobil Biomedical Sciences, Annandale, NJ.
- #3325 **Poster Board Number** F465
A Reassessment of Chronic Kidney Inflammation as the Critical Effect for Dimethyl Terephthalate. *M. Lewis, M. Weng, S. Wu, X. Dai, E. Rufer, R. F. Shulfer, and M. Kamberi.* Abbott Laboratories, Saint Paul, MN.
- #3326 **Poster Board Number** F466
Safety evaluation of hair straightening products containing glyoxylic acid with respect to formaldehyde release and oxalic acid formation. *R. Justiniano¹, J. Diller², A. Fuchs², R. Fautz², N. Hewitt³, C. Schmidt⁴, S. Langhoff⁴, C. Goebel⁵, K. Schwarz⁶, K. Bluemlein⁶, and G. von Bölcsházy⁴.* ¹Wella Company, Calabasas, CA; ²Kao Germany GmbH, Darmstadt, Germany; ³SWS, Erzhausen, Germany; ⁴Wella Company, Darmstadt, Germany; ⁵BBCGTox, Mörfelden-Waldorf, Germany; and ⁶Fraunhofer Institute for Toxicology and Experimental Medicine ITEM, Hannover, Germany.
- #3327 **Poster Board Number** F467
Incorporating Climatic Relevance Endpoints into GreenScreen for Safer Chemicals Assessments. *J. Y. Tanir, J. Rutkiewicz, B. Wang, and M. H. Whittaker.* ToxServices LLC, Washington, DC.
- #3328 **Poster Board Number** F468
Demonstrating the difference between hazard and risk: The relevance of high-dose experimental animal study results to real-world fragrance exposure in consumers. *K. Joshi¹, A. Bartlett¹, W. Dekant², I. Sipes³, G. Eisenbrand⁴, and A. Api¹.* ¹Research Institute For Fragrance Materials (RIFM), Mahwah, NJ; ²University of Wuerzburg, Würzburg, Germany; ³University of Arizona, Tucson, AZ; and ⁴University of Kaiserslautern, Heidelberg, Germany.
- #3329 **Poster Board Number** F469
Probabilistic cancer risk assessment associated with implantable medical devices: A case study. *M. Weng, X. Dai, E. Rufer, S. Wu, M. Lewis, R. F. Shulfer, and M. Kamberi.* Abbott Laboratories, St. Paul, MN.
- #3330 **Poster Board Number** F470
Is it actually dirty? A Probabilistic Risk Assessment of the EWG's Dirty Dozen. *I. T. Engel, E. M. Martin, M. Berg, and A. Costa.* CTEH, North Little Rock, AR.
- #3331 **Poster Board Number** F471
Engineered Stone and Respirable Crystalline Silica Exposure: Clarifying Misconceptions about Toxicity and Risk Management. *A. Shakya.* TRC Strategic Health Sciences, Jackson, WY.
- #3332 **Poster Board Number** F472
Conditional Knockdown of USP22 Reveals Target Liability in Adult Mice. *S. Zhu¹, V. Bhaskaran¹, J. Zhang¹, S. Rex-Rabe¹, S. Wagh², J. Price¹, S. Moore¹, and K. Augustine¹.* ¹Bristol-Myers Squibb Company, Lawrenceville, NJ; and ²Bristol-Myers Squibb Company, Cambridge, MA.

- #3333 **Poster Board Number F473**
The delay in the completion of vaginal opening induced by Epyrifenacil is a secondary effect caused by prepubertal anemia. M. Izumi, Y. Hosokawa, M. Shimada, M. Matsumoto, S. Sugaya, K. Ogata, K. Iwashita, R. Matsuyama, S. Fukunaga, and H. Asano. Sumitomo Chemical Co., Ltd., Osaka, Japan. Sponsor: S. Sugaya, Japanese Society of Toxicology
- #3334 **Poster Board Number F474**
Enhancing Early Safety Assessment: A Functional Assay-Based Secondary Pharmacology Profiling Strategy. X. Guo, Z. Nie, Y. Zhao, M. Shi, Z. Cui, Q. Xia, and T. Bing. ICE Bioscience, Beijing, China. Sponsor: T. Bing, American Association for Cancer Research
- #3335 **Poster Board Number F475**
Pragmatic Modification of Systematic Evidence Map Scope in Support of the ATSDR Toxicological Profiles Program. S. Tariq¹, M. Riccardi¹, K. Zaccaria¹, F. Atif², G. Casillas², and F. Scinicariello². ¹SRC, Liverpool, NY; and ²The Agency for Toxic Substances and Disease Registry (ATSDR), Office of Innovation and Analytics (OIA), Atlanta, GA.
- #3336 **Poster Board Number F476**
Systematic Evidence Map for CCl₄ and Interactive Visualization. F. Atif¹, G. Casillas¹, F. Scinicariello¹, N. Roney¹, M. Riccardi², and K. Zaccaria². ¹The Agency for Toxic Substances and Disease Registry (ATSDR), Office of Innovation and Analytics (OIA), Atlanta, GA; and ²SRC, Liverpool, NY.
- #3337 **Poster Board Number F477**
Dosimetry Refinement for Tiered Screening Human Health Risk Assessment: A Case Study. L. M. Sweeney^{1,2}, T. J. LaLonde^{3,2}, A. J. Keebaugh^{1,2}, and R. A. Clewell^{4,2}. ¹BlueHalo, Wright Patterson AFB, OH; ²US Air Force Research Laboratory, Wright Patterson AFB, OH; ³Henry M. Jackson Foundation for the Advancement of Military Medicine, Inc, Wright Patterson AFB, OH; and ⁴EIS, Inc., Wright Patterson AFB, OH.
- #3338 **Poster Board Number F478**
Evaluating New Chemicals Under the Toxic Substances Control Act (TSCA): Application of US EPA's ChemInformatics Modules for Identification of Information for Human Health Risk Assessment. K. Schumacher¹, R. Brunner², E. Marques³, K. Salazar⁴, T. M. Martin², and A. J. Williams². ¹US EPA, Lenexa, KS; ²US EPA, Research Triangle Park, NC; ³US EPA, Narragansett, RI; and ⁴US EPA, Washington, DC.
- #3339 **Poster Board Number F479**
Skip to Recipe: the importance of food disaggregation in performing lifestage-specific dietary exposure assessments. D. Hoer¹, A. Niman², and C. Tan¹. ¹US EPA, RTP, NC; and ²US EPA, Washington, DC.
- #3340 **Poster Board Number F480**
Application of the Threshold of Toxicological Concern (TTC) to Evaluate New Chemicals under the Toxic Substances Control Act (TSCA). K. Salazar, R. Brunner, and M. Feshuk. US EPA, Washington, DC.
- #3341 **Poster Board Number F481**
A Human Health Risk Assessment Approach for Evaluating Carbon Nanotubes under the Toxic Substances Control Act (TSCA). E. Mutlu¹, R. Beardslee², Y. Chen², E. Marques³, K. Salazar², and R. Brunner¹. ¹US EPA, RTP, NC; ²US EPA, Washington, DC; and ³US EPA, Narragansett, RI.
- #3342 **Poster Board Number F482**
Utilizing Toxicokinetic and Mode of Action Information to Evaluate the Human Relevance of Ovarian Toxicity Data for 1,3-Butadiene. K. Jacobs, A. Sasidharan, A. Huang, and S. Healy. US EPA, Washington, DC.

#3342a **Poster Board Number** F483
Mechanistic *In Silico* Model of Global and Local Reactivity to Predict Ready Biodegradation in Small Molecules. *D. P. Garnica Acevedo, and J. Kostal.* The George Washington University, Washington, DC.

Monday, March 23, 9:15 AM to 11:45 AM, Exhibit Hall B, Convention Center

PS Poster Session: New Approach Methods: General

Chair(s): Ed Kelly, University of Washington; and Paul Whaley, WhaleyResearch, United Kingdom.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 9:15 AM–11:45 AM

Abstract #

- #3343 **Poster Board Number** F486
A New Approach Methodology (NAM) Based Workflow to Address Systemic Toxicity for Chemicals Including Fragrance Materials. *S. Donthamsetty, X. Huang, D. Sancho, and G. Ladics.* International Flavors and Fragrances, Hazlet, NJ.
- #3344 **Poster Board Number** F487
Modernizing Inhalation Testing and Assessment: Bridging Exposure Modeling with Regulatory Acceptance. *M. M. Hargrove, A. Pecquet, T. Ramanarayanan, and A. Goetz.* Syngenta, Greensboro, NC.
- #3345 **Poster Board Number** F488
Identification of functional amino acids in a tricellular tight junction modulator, angubindin-1. *S. Kimura, T. Kuzu, Y. Niwa, and M. Kondoh.* the University of Osaka, Suita, Japan.
- #3346 **Poster Board Number** F489
Understanding Mechanisms of Acute Iron Toxicity and Ferroptosis on *C. elegans* Energetic Activity. *A. R. Straut, B. P. Lawrence, M. K. O'Banion, and J. O. Onukwufor.* University of Rochester, Rochester, NY.
- #3347 **Poster Board Number** F490
Integrating high-content technologies with exposure and toxicokinetics for screening applications. *S. Ng¹, J. Leedale², T. Ramanarayanan¹, A. Szarka¹, W. Chen¹, R. Currie², and A. Karmaus¹.* ¹Syngenta Crop Protection, LLC, Greensboro, NC; and ²Syngenta Crop Protection Research, Bracknell, United Kingdom.
- #3348 **Poster Board Number** F491
Enabling single-cell transcriptomics from samples with degraded and low-input RNA using TempO-LINC. *Z. Chen, and K. White.* Biospyder, Carlsbad, CA.
- #3349 **Poster Board Number** F492
Exploring the potential of *in vitro* to *in vivo* extrapolation for uterotrophic effects in quantitative human health risk assessment. *M. Matsumoto, K. Yoshida, T. Umano, T. Iso, Y. Omichi, N. Hirose, M. Wakayama, T. Yamada, and K. Masumura.* National Institute of Health Sciences, Japan, Kawasaki, Japan.
- #3350 **Poster Board Number** F493
Multi-Omics Integration of Transcriptomics and Phenomics Reveals Complementary Molecular and Morphological Signatures of Compound Response and Toxicity. *A. Coudray, S. Placzek, M. Vallez, D. Cabuzu, V. Hahaut, and D. Alpern.* Alithea Genomics, Epalinges, Switzerland. Sponsor: *R. Currie*

- #3351 **Poster Board Number F494**
A Weight of Evidence Framework for the Application of New Approach Methodologies (NAMs) in Genotoxicity Risk Assessment. *R. N. Caballero-Floran¹, A. Sleiman¹, B. Lampe¹, K. A. Magurany², Y. Jo³, S. H. Hong³, S. J. Park³, and T. D. Vincent-Hall¹.* ¹NSF International, Ann Arbor, MI; ²Verito Solutions, LLC, Washington, DC, WA; and ³Rural Development Administration, Jeonju, Korea, Republic of.
- #3352 **Poster Board Number F495**
Dissolution of Synthetic Vitreous Fibers (SVFs) in Simulated Gastric Fluids. *J. W. Hoffman, and H. Kessler.* Owens Corning, Granville, OH. Sponsor: *A. Madl*
- #3353 **Poster Board Number F496**
Integrating in Vitro, in Vivo, and Biomimetic Chromatography Data to Enhance Chemical Toxicity Predictions. *J. K. Martin¹, L. Truong¹, K. Valko², B. Rajwa³, and R. L. Tanguay¹.* ¹Oregon State University, Corvallis, OR; ²Bio-Mimetic Chromatography Ltd, Stevenage, United Kingdom; and ³Purdue University, Lafayette, IN.
- #3354 **Poster Board Number F497**
Extraction-Free TempO-Seq Profiling of Dried Blood Spots for Comprehensive Transcriptome Analysis. *Z. Chen, and M. Hernandez.* Biospyder Technologies Inc., Carlsbad, CA.
- #3355 **Poster Board Number F498**
Phenotype-Anchored Transcriptomic Signatures of Developmental Neurotoxicity (DNT) Compounds in Zebrafish. *L. Lin¹, L. St. Mary^{1,2}, D. Phadke³, M. Balik-Meisner³, E. Scholl³, D. Mav³, B. Howard³, R. Shah³, L. Truong¹, and R. Tanguay¹.* ¹Department of Environmental and Molecular Toxicology, Oregon State University, Corvallis, OR; ²Exponent Inc., Natick, MA; and ³Sciome, LLC, Research Triangle Park, NC.
- #3356 **Poster Board Number F499**
Statistical analysis of multi-endpoint phenotypic screening in the planarian *Dugesia japonica* provides unique value for developmental neurotoxicity testing. *D. Ireland¹, L. J. Word², and E. S. Collins^{1,3}.* ¹Swarthmore College, Swarthmore, PA; ²Independent Computational Toxicology Consultant, Durham, NC; and ³University of Pennsylvania, Philadelphia, PA.
- #3357 **Poster Board Number F500**
Characterizing lineage specific drug induced injury responses and sensitivity using a mechanism based gene co-expression network approaches and fluorescent reporters. *S. Davidse¹, L. Xu¹, E. Lymperi¹, T. Danilyuk¹, B. Islam², S. Kunnen¹, P. Bouwman¹, L. Wijaya¹, and B. van de Water¹.* ¹Leiden University (LACDR), Leiden, Netherlands; and ²Certara, Sheffield, United Kingdom.
- #3358 **Poster Board Number F501**
***C. elegans* as a model to detect negative-feedback effects on conserved developmental signal transduction pathways.** *P. R. Hunt.* FDA, Laurel, MD.
- #3359 **Poster Board Number F502**
Reproducibility of points of departure derived from high throughput transcriptomic assays with four species of aquatic organisms. *D. L. Villeneuve¹, K. Bush², G. Casciano³, J. Cavallin¹, S. Daley², A. Kasperek⁴, M. Nash², J. Stewart², and K. Flynn¹.* ¹US EPA, Duluth, MN; ²US EPA, ORISE participant, Duluth, MN; ³US EPA, ORISE Participant, Duluth, MN; and ⁴SpecPro Sustainment and Environmental, Duluth, MN.
- #3360 **Poster Board Number F503**
Transcriptomic Points of Departure from Whole vs Targeted Transcriptome Sequencing. *M. Nash¹, K. Flynn², D. Villeneuve², P. Schumann³, and M. Hazemi⁴.* ¹Oak Ridge Institute of Science and Education/Environmental Protection Agency, Duluth, MN; ²US Environmental Protection Agency, Duluth, MN; ³Environmental Protection Agency, Duluth, MN; and ⁴US Environmental Protection Agency, Durham, NC.

- #3361 **Poster Board Number F504**
Implementation of a New Approach Methods (NAMs)-based Framework to Evaluate Skin Irritation of New Chemicals under TSCA. R. Brunner¹, R. A. Beardslee¹, A. Bettmann², A. J. Clippinger², E. G. Costin³, H. Raabe³, K. Salazar⁴, A. van der Zalm², and A. Lowit⁴. ¹US EPA/OCSPP, Research Triangle Park, NC; ²PETA Science Consortium International e.V., Stuttgart, Germany; ³Institute for In Vitro Sciences, Inc., Gaithersburg, MD; and ⁴US EPA/OCSPP, Washington, DC.
- #3362 **Poster Board Number F505**
Longitudinal high-throughput phenotypic profiling using live-cell staining in U-2 OS cells over a 72-hour period. A. H. Tennant¹, C. M. Willis¹, F. R. Harris¹, and J. A. Harrill². ¹U.S. Environmental Protection Agency, Research Triangle Park, NC; and ²U.S. Environmental Protection Agency, Research Triangle Park, NC.
- #3363 **Poster Board Number F506**
Evaluating an *in vitro* Human-Based Blood-Milk-Barrier Model for Drug Transport During Lactation. M. Garcia¹, C. Sullenberger¹, R. M. Geiger¹, S. M. Rahman¹, P. Hyland¹, K. Krutsch², E. Pfuma Fletcher¹, T. K. Feaster¹, and K. Blinova¹. ¹Food and Drug Administration, Silver Spring, MD; and ²Infant Risk Center - Texas Tech University Science Center, Amarillo, TX. Sponsor: K. Howard
- #3364 **Poster Board Number F507**
CAMERA: A Centralized Public Resource for Validated Alternative Methods to Support Regulatory Decision-Making. A. R. Cole¹, K. Needham¹, P. Osei-Akyeampong¹, T. Abioye¹, E. N. Reinke², B. Reisfield², B. Chambers², J. Hamm², R. Tieghi¹, T. Saddler¹, J. Mensah¹, C. DeGroote¹, W. Casey³, N. C. Kleinstauer⁴, and H. T. Hogberg⁵. ¹Dynanet Corporation, Elkridge, MD; ²Inotiv, Research Triangle Park, NC; ³DTT, NIEHS, NIH, Research Triangle Park, NC; ⁴DPCPSI, NIH, Bethesda, MD; and ⁵NICEATM, DTT, NIEHS, NIH, Research Triangle Park, NC.

Monday, March 23, 1:45 PM to 4:15 PM, Exhibit Hall B, Convention Center

PS Poster Session: New Approach Methods: *In Vitro* I

Chair(s): Holger Behrsing, Institute for In Vitro Sciences Inc.; and Eda Rogers, LifeNet Health.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 1:45 PM–4:15 PM

Abstract #

- #3365 **Poster Board Number G508**
HiPSC-derived Sensory Neuron and Schwann Cell Co-culture as a NAM for Peripheral Neuropathy Risk Assessment. X. Tang¹, J. E. Finley¹, D. Capunitan¹, G. Lee¹, C. Liu¹, and P. Treuting². ¹Drug Safety Research & Development, Pfizer Inc., Groton, CT; and ²Drug Safety Research & Development, Pfizer Inc., Bothell, WA.
- #3366 **Poster Board Number G509**
Development of Microfluidic Chip-Based Multi-Cellular Model for Local Toxicity Test. M. Kwon¹, H. Chae¹, T. Lee², S. Kyung², W. Park², J. Ko², K. Lim³, and B. Park¹. ¹Kolmar Korea Co., Ltd, Seoul, Korea, Republic of; ²Gachon University, Seongnam, Korea, Republic of; and ³Ewha Womans University, Seoul, Korea, Republic of.
- #3367 **Poster Board Number G510**
Unveiling Oral Vulnerability: A Human 3D Model of Sulfur Mustard-Induced Epithelial Injury. L. Karchalla, L. Byers, V. Vuong, S. Ahmad, and P. M. McNutt. Wake Forest Institute of Regenerative Medicine, Winston Salem, NC.

- #3368 **Poster Board Number** G511
Dual NR4A1 and NR4A2 Ligands Promote Ferroptosis and Inhibit Rhabdomyosarcoma Growth through CD71 Activation. A. R. Oany, S. Upadhyay, and S. Safe. Texas A&M University, College Station, TX.
- #3369 **Poster Board Number** G512
Beyond phthalates: cytotoxicity and obesogenic potential of emerging alternative plasticizers. A. Frescura, and R. Lavado. Baylor University, Waco, TX.
- #3370 **Poster Board Number** G513
Identification of clozapine mediated protein modification with a novel strategy: wielding click chemistry to advance clozapine toxicity research. S. Lockhart¹, Y. Tabana², S. Tabatabaei-Dakhili¹, D. Babu¹, N. Tran¹, O. Eldalal¹, F. G. West¹, J. R. Ussher¹, K. H. Barakat¹, R. P. Fahlman¹, and A. G. Siraki¹. ¹University of Alberta, Edmonton, AB, Canada; and ²University of Toronto, Toronto, ON, Canada.
- #3371 **Poster Board Number** G514
From Barrier Integrity to Clinical Outcome: A Machine Learning-Enhanced Human Intestinal Model for Diarrhea Risk Assessment Across Small Molecules and ADCs. V. X. Han, S. Gervacio, C. Toohey, H. Aidnik, C. Rosette, and K. E. Murphy. VivoSim Labs, San Diego, CA. Sponsor: C. Tyree
- #3372 **Poster Board Number** G515
Recreating Scalp Inflammation *Ex Vivo*: A Human Hair Follicle-Preserving Model for Immunotoxicological and Therapeutic Assessment. E. Pagès¹, E. Braun¹, M. Péries¹, A. Ochando Descargues¹, R. Ismail², P. Mondon³, J. Ginesta⁴, and N. Gaudenzio^{1,5}. ¹Genoskin, Toulouse, France; ²Research Unit UR4312 CBSA, University Rouen, Evreux, France; ³Sederma, Le Perray en Yvelines, France; ⁴CFEB SISLEY, Paris, France; and ⁵Toulouse Institute for Infectious and Inflammatory Diseases (INFINITY), INSERM UMR1291, CNRS UMR5051, University of Toulouse, Toulouse, France. Sponsor: A. Ochando descargues, EUROTOX
- #3373 **Poster Board Number** G516
Quantitative Estimates of Toxicodynamic Variability for New Approach Methodologies-Based Systemic Safety Toolbox Using a Population-Based Human *in Vitro* Model. I. F. Alshammari¹, L. C. Ford¹, H. D. Tsai¹, H. Lin¹, C. K. Negi¹, A. N. Dickey², F. A. Wright², A. M. Middleton³, M. T. Baltazar³, J. Reynolds³, S. Cable³, A. Punt³, W. A. Chiu¹, and I. Rusyn¹. ¹Texas A&M University, College Station, TX; ²North Carolina State University, Raleigh, NC; and ³Safety, Environmental & Regulatory Science (SERS), Unilever, Sharnbrook, United Kingdom.
- #3374 **Poster Board Number** G517
Development of a Recirculating Liver-on-a-Chip Platform for Toxicological Application: Evaluation of Hepatotoxicity of Triphenyl Phosphate. J. Kang¹, M. Song¹, H. Jin¹, M. Shin², K. Kim³, H. Moon², and K. Kim¹. ¹Seoul National University of Science and Technology, Seoul, Korea, Republic of; ²Hanyang University, Ansan, Korea, Republic of; and ³BioSpero, Inc., Jeju, Korea, Republic of.
- #3375 **Poster Board Number** G518
A Human Airway-on-a-Chip Microphysiological System for Modeling Chlorine Gas Toxicity. S. V. Murphy. Wake Forest Institute for Regenerative Medicine, Winston Salem, NC.
- #3376 **Poster Board Number** G519
Utilizing Human Small Intestinal Organoids for Quantitative Prediction of Oncology Therapy Induced Diarrhea. S. Liu¹, K. Pryde¹, M. Beshiri¹, P. Yeung¹, C. Pin², and M. Coen². ¹AstraZeneca, Waltham, MA; and ²AstraZeneca, Cambridge, United Kingdom. Sponsor: M. Stamou
- #3377 **Poster Board Number** G520
Optimizing Air-Liquid Interface Respiratory NAM Models for Acute Exposure Scenarios to Support Regulatory Screening and Safety Assessment. M. Hollings, A. Seymour, E. Rothwell, and R. Bedford. Labcorp, Harrogate, United Kingdom. Sponsor: S. Papineni

- #3378 **Poster Board Number G521**
Benzalkonium Chlorides Alter Gene Networks Governing Cell Proliferation in Human Enteroid Monolayers. S. A. Katz¹, K. Wang², M. N. Brzoska³, V. A. Lopez³, R. P. Seguin³, E. J. Kelly^{1,2}, and L. Xu^{1,3}. ¹Department of Environmental And Occupational Health, University of Washington, Seattle, WA; ²Department of Pharmaceutics, University of Washington, Seattle, WA; and ³Department of Medicinal Chemistry, University of Washington, Seattle, WA.
- #3379 **Poster Board Number G522**
***In Vitro* Safety Profiling of ADCs Using an iPSC-Derived Human Tissue Screen to Support FDA Roadmap for Biologics.** L. Smit, K. Pitsa, C. van Berkel, S. Schwengberg, and S. Holt. Ncardia Services B.V., Leiden, Netherlands. Sponsor: S. Schwengberg, Safety Pharmacology Society
- #3380 **Poster Board Number G523**
Utilization of *In Vitro* Liver Models for the Toxicology Testing of Rat and Dog Hepatocytes. P. L. Deford¹, O. Lally², K. Rogy², Z. Sutate¹, A. Lehman¹, J. McKenna¹, W. Chen¹, E. Costa¹, J. Fitzpatrick¹, M. Terrill¹, A. Pappas-Garton¹, K. Johnson¹, J. LaRocca¹, E. Bianchi¹, and S. Khetani². ¹Corteva Agriscience, Indianapolis, IN; and ²University of Illinois Chicago, Chicago, IL.
- #3381 **Poster Board Number G524**
***In vitro* imaging and safety profiling of siRNA Ryr2 delivered via inhalation in human models.** V. Bettinsoli^{1,2}, M. Erlacher³, D. Wilflingseder³, V. Galbiati¹, G. Melzi¹, M. Marinovich¹, and E. Corsini¹. ¹Università degli studi di Milano, Milano, Italy; ²Università degli studi di Napoli Federico II, Napoli, Italy; and ³Ignaz Semmelweis Institute, Interuniversity Institute for Infection Research, Vetmeduni, Vienna, Austria.
- #3382 **Poster Board Number G525**
Integrating *in vitro* and *in silico* approaches for assessing local respiratory effects in inhalation exposure safety evaluations. V. S. Patel¹, and N. Sadekar². ¹Institute for In Vitro Sciences, Inc., Gaithersburg, MD; and ²Research Institute for Fragrance Materials, Inc., Mahwah, NJ.
- #3383 **Poster Board Number G526**
Development and Characterization of Non-Human Primate iPSC-Derived Ventricular Cardiomyocytes for *in vitro* Safety and Toxicity Screening. S. Schwengberg, I. Veldkamp-Baak, P. van Loenen, J. Koepke, T. Smith, and M. Argenziano. Ncardia Services B.V., Leiden, Netherlands. Sponsor: S. Schwengberg, Safety Pharmacology Society
- #3384 **Poster Board Number G527**
Building Confidence in MPS Use in Regulatory Applications: The 3Rs Collaborative's & FDA-CDER's Cross-Platform DILI Project. W. Kang¹, M. R. LaFollette², S. Ferguson³, G. Marsh⁴, D. Dalmaz⁵, A. Daniel⁶, and N. Sadrieh⁷. ¹Merck & Co Inc, West Point, PA; ²The 3Rs Collaborative, Denver, CO; ³NIH/NIEHS, Durham, NC; ⁴Critical Path Institute, Tucson, AZ; ⁵Independent, Collegeville, PA; ⁶Inotiv, Research Triangle Park, NC; and ⁷CDER/FDA, Silver Spring, MD.
- #3385 **Poster Board Number G528**
Assessment of a 3D Primary Human Thyroid Microtissue Assay for Identifying Thyroid-Disrupting Chemicals. E. Rogers¹, K. Wolf², T. Stone², C. Deisenroth³, J. Chen¹, J. Klein¹, and E. LeCluyse². ¹LifeNet Health LifeSciences, Virginia Beach, VA; ²LifeNet Health LifeSciences, Research Triangle Park, NC; and ³U.S. Environmental Protection Agency, Research Triangle Park, NC.
- #3386 **Poster Board Number G529**
Evaluating toxicity of polycyclic aromatic hydrocarbons from wildfire smoke in primary human bronchial epithelial cells in the presence and absence of THP-1 macrophages. K. S. Burns^{1,2}, J. M. Pennington¹, R. S. McClure³, A. Biggerstaff¹, K. A. Anderson^{1,2}, K. M. Waters^{1,2,3}, J. C. DeWitt^{1,2}, and S. C. Tilton^{1,2}. ¹Environmental and Molecular Toxicology, Oregon State University, Corvallis, OR; ²Superfund Research Program, Oregon State University, Corvallis, OR; and ³Pacific Northwest National Laboratory, Richland, WA.

- #3387 **Poster Board Number G530**
The comprehensive cardiovascular toxicology assessment in multi-level of *in vitro* cell models. M. Lu, J. Xu, L. Wen, and F. He. Pharmaron Beijing Co., Ltd., Beijing, China. Sponsor: *S. Luo*
- #3388 **Poster Board Number G531**
***In Vitro* Human Bronchiole Models as Promising Tools for Drug Screening with Potential Pulmonary Toxicity.** X. Li, J. Xu, Y. Wang, and F. He. Pharmaron Beijing Co., Ltd., Beijing, China. Sponsor: *S. Luo*
- #3389 **Poster Board Number G532**
An Engineered 3D Liver Tissue Model(*invivo*) for Long-Term Culture Without Medium Exchange. Y. Naito¹, K. Hattori¹, T. Shinoda¹, Y. Yamada², S. Kitano¹, and M. Matsusaki³. ¹TOPPAN Holdings Inc., Saitama, Japan; ²Nihon Pharmaceutical University, Saitama, Japan; and ³The University of Osaka, Osaka, Japan. Sponsor: Y. Naito, Japanese Society of Toxicology
- #3390 **Poster Board Number G533**
Implementation of the LEAP assay in stem cell-derived cardiomyocyte to detect sodium channel blockers in pre-clinical safety. J. Treadway, M. Zafiratos, S. Zhang, X. Liu, O. Antic, G. Jasiek, B. Bird, A. Wilsey, J. Segreti, Y. Koshman, and M. Foley. AbbVie, North Chicago, IL.
- #3391 **Poster Board Number G534**
Bridging *In Vitro* and *In Vivo* Inhalation Toxicity: Dosimetry and Deposition Assessment of Organic Solvents and Nanoparticles in Air-Liquid Interface Systems. J. Lee¹, H. Lee², K. Ahn³, M. Jo², J. Kim⁴, Y. Han⁵, C. Lee⁵, Y. Kwon⁴, E. M. Faustman⁵, and I. Yu¹. ¹HCT Seattle, Seattle, WA; ²HCTm, Icheon, Korea, Republic of; ³Hanyang University, Ansan, Korea, Republic of; ⁴H&H Bio, Asan, Korea, Republic of; and ⁵University of Washington, Seattle, WA.
- #3392 **Poster Board Number G535**
High-Content Mechanistic Profiling in a 3D Mini-Testis Model: Integration of Proliferation and Epigenetic Markers for Comprehensive Toxicity Screening. L. Yin¹, J. C. Hu², and X. Yu². ¹Reprotox Biotech, Albuquerque, NM; and ²College of Nursing, University of New Mexico, Albuquerque, NM.
- #3393 **Poster Board Number G536**
Spatial transcriptomic measurements in the cryopreserved human precision-cut lung slice. S. Choudhury^{1,2,3}, M. Arava^{1,2}, I. Sivankutty^{1,2}, J. Kim^{4,5}, Z. An^{1,2}, E. Matsui¹, D. Sahu¹, C. Cai¹, V. Patel⁶, B. Suki^{4,5}, R. Krishnan⁵, and H. P. Behrsing^{6,7}. ¹Boston Children's Hospital, Boston, MA; ²Harvard Medical School, Boston, MA; ³Broad Institute of MIT and Harvard, Cambridge, MA; ⁴Boston University, Boston, MA; ⁵Mechanobiologix, LLC, Boston, MA; ⁶Institute for In Vitro Sciences, Inc., Gaithersburg, MD; and ⁷Advanced In Vitro, LLC, Frederick, MD.
- #3394 **Poster Board Number G537**
Establishing and Validating an *In Vitro* Seizure Liability Assay with hiPSC-Derived Glutamatergic Neurons and Astrocytes. H. Miyoshi, E. Watanabe, and A. Inomata. FUJIFILM Corporation, Bio Science & Engineering Laboratories, Ashigara-kami, Kanagawa, Japan.
- #3395 **Poster Board Number G538**
The use of multiple cell culture models for developing quantitative Adverse Outcome Pathways (qAOPs) for genotoxicity. C. Maggs¹, A. Cayley², A. Fowkes², S. Doak¹, and G. J. Jenkins¹. ¹Swansea University, Swansea, United Kingdom; and ²Lhasa Limited, Leeds, United Kingdom.
- #3396 **Poster Board Number G539**
Building a predictive structure activity relationship tool to help avoid ion channel related central nervous system liability in novel compounds. L. A. Zolkiewski¹, K. L. Rockley¹, J. McDonagh¹, J. E. Stacey², E. J. Griffen², K. Jones¹, H. G. Jennings¹, M. Maizieres¹, K. Newman¹, R. A. Roberts¹, and M. J. Morton¹. ¹Apconix, Macclesfield, United Kingdom; and ²MedChemica, Macclesfield, United Kingdom.

- #3397 **Poster Board Number G540**
Utilising *in vitro* assays to assess drug induced central nervous system liabilities.
 L. A. Zolkiewski, K. L. Rockley, H. G. Jennings, K. Jones, M. Maizieres, K. Newman, R. A. Roberts, and M. J. Morton. Apconix, Macclesfield, United Kingdom.
- #3398 **Poster Board Number G541**
Application of a Human Reporter-Based Live-Cell Imaging Platform for Detection of Mitochondrial Toxicity. T. Meijer¹, B. Tangil¹, B. ter Braak¹, E. de Tombe¹, S. Scott², A. Wood², and G. Hendriks¹. ¹Toxys, Oegstgeest, Netherlands; and ²Unilever R&D, SERS, Sharnbrook, United Kingdom.
- #3399 **Poster Board Number G542**
Self-assembling Peptide Hydrogels As User-defined Synthetic Matrices for *In Vitro* Modelling. J. Curd¹, V. Erdelyi¹, M. Shelton¹, C. Roper^{1,2}, and C. Merry¹. ¹PeptiMatrix Limited, Nottingham, United Kingdom; and ²Roper Toxicology Consulting Limited, Edinburgh, United Kingdom.
- #3400 **Poster Board Number G543**
Delivery of mRNA-based fusion protein reporters in primary hepatocytes for real-time quantitative imaging of mitochondrial morphology and dynamics. J. Qiu¹, K. Goldstein¹, J. Stutz¹, B. Q. Lee², A. Irizarry¹, and T. Baker¹. ¹Lilly Research Laboratory, Eli Lilly and Company, Indianapolis, IN; and ²Lilly Institute of Genetic Medicines, Eli Lilly and Company, Boston, MA.
- #3401 **Poster Board Number G544**
Leveraging a Human-Based Microphysiological System for *In Vitro* Pharmacokinetic Assessment of Oral Drug Formulations. A. Salminen¹, D. Dies¹, D. Austin¹, J. A. Willoughby Sr¹, H. Walker², and J. McKim, Jr.¹. ¹LifeNet Health LifeSciences, Virginia Beach, VA; and ²Bayer Healthcare LLC, Whippany, NJ.
- #3402 **Poster Board Number G545**
Quantifying signaling-perturbation kinetics for *in vitro* developmental toxicity testing. Y. Okubo^{1,2}, R. Matsuura¹, K. Murayama^{1,2}, K. Sato^{1,2}, S. Nakamoto¹, A. Ishikawa¹, M. Kuwagata³, H. Kojima⁴, D. Sasaki⁵, Y. Nakajima⁵, J. Fukuda², and Y. Hirabayashi¹. ¹National Institute of Health Sciences, Kawasaki, Japan; ²Yokohama National University, Yokohama, Japan; ³Teikyo Heisei University, Ichihara, Japan; ⁴Sanyo-Onoda City University, Yamaguchi, Japan; and ⁵National Institute of Advanced Industrial Science and Technology, Takamatsu, Japan.
- #3403 **Poster Board Number G546**
RNA-seq can be used for gene expression quantification in the GARDskin method for assessment of skin sensitizers. R. Gradin, J. Andersson, A. Forreryd, and H. Johansson. SenzaGen, Lund, Sweden.
- #3404 **Poster Board Number G547**
Translational Toxicology: Adapting Liver Microphysiological System for Cross-Species Evaluation of Hepatotoxicity Risk. I. Georgiades¹, J. Then¹, O. Novac¹, E. Richardson¹, C. Roper², and T. Kostrzewski¹. ¹CN Bio Innovations, Cambridge, United Kingdom; and ²Roper Toxicology Consulting Limited, Edinburgh, United Kingdom.
- #3405 **Poster Board Number G548**
Developing A Repeated Exposure Regimen Using A Buccal Epithelium-Fibroblast Tissue Model. X. Cao¹, J. Mollignano², M. Farcas¹, J. Oldach², and M. Gutierrez¹. ¹ALCS, Richmond, VA; and ²MatTek Corporation, Ashland, MA.
- #3406 **Poster Board Number G549**
Modeling CAR-T Cell Migration and Efficacy in a Microphysiological System. R. N. Stolberg¹, D. L. Wagner^{2,3}, P. Reinke^{2,3}, L. Koenig¹, and E. Dehne¹. ¹TissUse GmbH, Berlin, Germany; ²Charité - Universitätsmedizin Berlin, Berlin, Germany; and ³Berlin Institute of Health (BIH) at Charité, Berlin, Germany.

#3407 **Poster Board Number** G550
Opportunities in Toxicity Testing of New Drug Modalities with 3D *in vitro* Models.
 S. Shafiei, X. Spijkers, N. Wevers, K. Kosim, B. Duggan, W. Allen, V. van Duinen, F. Bonanini, H. Lanz, and D. Kurek. MIMETAS B.V, Oegstgeest, Netherlands. Sponsor: S. Kundu

Monday, March 23, 1:45 PM to 4:15 PM, Exhibit Hall B, Convention Center

PS Poster Session: Educating Future Toxicologists and Communicating with the Public

Chair(s): Darryl Hood, Ohio State University.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 1:45 PM–4:15 PM

Abstract #

- #3408 **Poster Board Number** G553
Co-mentoring: A novel approach to improve undergraduate retention in toxicology and other STEM fields. C. P. Curran¹, M. Kulkarni¹, C. Daniels¹, B. Russell¹, C. Thomas¹, K. Simonson¹, A. Brockman¹, S. Adjei¹, and N. Dillards². ¹Northern Kentucky University, Highland Heights, KY; and ²University of Minnesota, Minneapolis, MN.
- #3409 **Poster Board Number** G554
Cannabis Safety Considerations and Informed Decision Making by Cancer Patients: Drug Interactions. S. Griffith¹, M. E. Tisdall², I. M. Balodis³, D. Querney⁴, A. C. Rosenthal⁵, M. A. Siyam⁶, R. W. Kirchoff¹, and M. C. Leung⁷. ¹Arizona State University, Phoenix, AZ; ²Arizona State University, Glendale, AZ; ³Peter Boris Centre for Addictions Research, St. Joseph's Healthcare Hamilton and McMaster University, Hamilton, ON, Canada; ⁴City of Hamilton's Alcohol, Drug & Gambling Services, Hamilton, ON, Canada; ⁵Division of Hematology Medical Oncology, Mayo Clinic, Scottsdale, AZ; ⁶Michael G. DeGroote Pain Clinic, Hamilton Health Sciences, Hamilton, ON, Canada; and ⁷Division of Hospital Internal Medicine, Mayo Clinic, Cannabis Analytics, Safety and Health Initiative, School of Mathematical and Natural Sciences, College of Health Solutions, Arizona State University,, Phoenix, AZ.
- #3410 **Poster Board Number** G555
Interactive Learning Tools Improve Student Confidence and Learning in a Summer High School Program. A. R. Juenke, K. Otersen, C. R. Longoria, A. J. Gow, D. L. Laskin, L. M. Aleksunes, and G. Guo. Rutgers University, Piscataway, NJ.
- #3411 **Poster Board Number** G556
NURA: Free Toxicology Training on Sunscreens, Xeno-free Reagents, and More in 2026. E. Slankster-Schmierer, A. Martin, J. McCord, and S. Krishna. Physicians Committee for Responsible Medicine, Washington, DC.
- #3412 **Poster Board Number** G557
Research in action: An applied approach to understanding knowledge and preferred communication about chemical exposures in consumer and children's products. M. TatahMentan¹, C. Voyles², and B. Lange². ¹Minnesota Department of Health, St Paul, MN; and ²Hamline University, St Paul, MN. Sponsor: K. Klos
- #3413 **Poster Board Number** G558
Interactive Lesson on Microplastics and Nanoplastics for Summer Undergraduate Interns. S. Adams¹, G. Moreno², L. M. Aleksunes¹, D. Laskin¹, and P. Stapleton¹. ¹Rutgers University, Piscataway, NJ; and ²NJ Department of Environmental Protection, Trenton, NJ.

- #3414 **Poster Board Number G559**
The New Bilingual: Building AI Fluency in Graduate Education to Prepare the Toxicology Workforce. *J. L. Plahovinsak.* The Ohio State University, Columbus, OH.
- #3415 **Poster Board Number G560**
Efficacy of StressCURE: A Course-Based Undergraduate Research Experience Focused On Biological Stress In Various Laboratory Courses at Four Institutions. *J. L. Newell-Caito¹, M. Reynolds², S. Caito³, J. Hall⁴, J. Hartman⁵, J. Schroeder⁶, and J. Gray⁶.* ¹University of Maine, Orono, ME; ²Washington College, Chestertown, MD; ³Husson University, Bangor, ME; ⁴Lincoln Memorial University, Harrogate, TN; ⁵Medical University of South Carolina, Charleston, SC; and ⁶US Coast Guard Academy, New London, CT.
- #3416 **Poster Board Number G561**
Transforming Toxicology Education through Interactive Online Modules: The ToxMSDT Approach. *M. Reynolds¹, J. Gray², B. J. Eidemiller³, A. O'Connor⁴, E. Glibreth⁵, L. Blackshire⁶, J. A. Flaws⁷, and W. K. Rumbelha⁶.* ¹Washington College, Chestertown, MD; ²United States Coast Guard Academy, New London, CT; ³Society of Toxicology, Reston, VA; ⁴Michigan State University, East Lansing, MI; ⁵Tuskegee University, Tuskegee, AL; ⁶University of California Davis, Davis, CA; and ⁷University of Illinois Urbana-Champaign, Urbana, IL.
- #3417 **Poster Board Number G562**
Learn with Worms: StressCURE's Modular Approach to Innovative Laboratory Design for Integrating Research into Undergraduate Courses. *S. Caito¹, J. Hall², M. Reynolds³, J. Hartmann⁴, J. L. Newell-Caito⁵, J. Schroeder⁶, and J. P. Gray⁶.* ¹Husson University School of Pharmacy, Bangor, ME; ²Lincoln Memorial University, Harrogate, TN; ³Washington College, Chestertown, MD; ⁴Medical University of South Carolina, Charleston, SC; ⁵University of Maine, Orono, ME; and ⁶U.S. Coast Guard Academy, New London, CT.
- #3418 **Poster Board Number G563**
An Innovative National Research Education, Mentoring, and Skills Development Training Program in One Health and Toxicology: MSDT-One Health. *L. S. Van Winkle, L. Blackshire, and W. K. Rumbelha.* University of California Davis, Davis, CA.
- #3419 **Poster Board Number G564**
Advancing Neural Exposome Research at NINDS: Strategic Initiatives and Scientific Priorities. *C. Figueroa-Romero, N. T. Dhruv, S. Sameni, A. Givens-Burton, and S. M. Spriggs.* National Institute of Neurological Disorders and Stroke, Rockville, MD.
- #3420 **Poster Board Number G565**
The Environmental Health Language Collaborative (EHLC): Spotlight on Community-Driven Projects that Harmonize Toxicology Data. *M. Shatz¹, J. Freed², J. Wignall³, G. Chappell⁴, C. Duncan¹, K. Vinsonhaler⁴, H. Bledsoe⁴, and C. Schmitt¹.* ¹National Institute of Environmental Health Sciences, Durham, NC; ²ICF, Atlanta, GA; ³ICF, Winooski, VT; and ⁴ICF, Durham, NC.

Monday, March 23, 1:45 PM to 4:15 PM, Exhibit Hall B, Convention Center

PS Poster Session: Ethical, Legal, Social, and Historical Issues

Chair(s): Darryl Hood, Ohio State University.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 1:45 PM–4:15 PM

Abstract #

- #3421 **Poster Board Number** G566
Contamination in Pharmaceuticals: Public Health, Medico-Legal Implications, and Recent Incidents. *M. Patnaik*¹, *M. Patnaik*², and *M. Singh*³. ¹All India Institute of Medical Sciences Raipur, Raipur, India; ²NCR Institute of Medical Sciences, Meerut, India; and ³Maulana Azad Medical College, New Delhi, India.
- #3422 **Poster Board Number** G567
From Sensors to Solutions: Novel Co-Planning Frameworks to Guide Air Pollution Monitoring and Input into Environmental Public Health Policy in the Columbus, Ohio Metropolitan Statistical Area. *C. O. Moore*¹, *D. B. Gingerich*², *C. Stephens*², *E. Chou*³, *M. Diaz Hernandez*⁴, *D. Asabere*⁵, *A. Modali*⁵, *M. Rayo*⁵, and *D. B. Hood*⁶. ¹College of Public Health, The Ohio State University, Columbus, OH; ²Department of Civil, Environmental and Geodetic Engineering, The Ohio State University, Columbus, OH; ³College of Food, Agricultural, and Environmental Sciences, The Ohio State University, Columbus, OH; ⁴Mid-Ohio Regional Planning Commission (MORPC), Columbus, OH; ⁵Integrated Systems Engineering, The Ohio State University, Columbus, OH; and ⁶Division of Environmental Health Sciences, College of Public Health, The Ohio State University, Columbus, OH.

Monday, March 23, 9:15 AM to 11:45 AM, Exhibit Hall B, Convention Center

PS Poster Session: Immunotoxicity I

Chair(s): Amber Goetz, Syngenta Crop Protection LLC; and Ebenezar Okoyeocha, Michigan State University.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 9:15 AM–11:45 AM

Abstract #

- #3423 **Poster Board Number** H568
Effects of Asbestos Dosage on Kidney IgG Deposition. *S. M. Rigby*, and *K. M. Serve*. Idaho State University, Pocatello, ID.
- #3424 **Poster Board Number** H569
Humanized B-hIL4/hIL4RA mice model for efficacy and toxicity evaluation. *J. Zhang*¹, *S. Niu*², *S. Zhao*², *C. Liu*², and *X. Zhou*². ¹Biocytogen, Waltham, MA; and ²Biocytogen Pharmaceuticals (Beijing) Co., Ltd., Beijing, China, Beijing, China.
- #3425 **Poster Board Number** H570
Woodsmoke as an Environmental Amplifier of Autoimmune Pathology in Experimental Autoimmune Encephalomyelitis (EAE) Mouse Model. *C. Cevering*, *M. Montera*, *E. Suh*, *B. Baird*, *E. Barr*, *J. Begay*, *G. Herbert*, *H. Wondra*, *L. Santos-Medina*, *M. MazloumiBakhshayesh*, *M. Campen*, and *S. Blossom*. University of New Mexico, Albuquerque, NM.

- #3426 **Poster Board Number** H571
Efficiency of Tdap in Pregnancy with PFAS Exposure and Altered Immune Cell Populations in Maternal Rabbit Model. *K. Cuevas Mora, S. Barrow, C. Agina, H. Rawtani, M. Woldetensae, J. Wang, A. Erlanki, A. Garner, C. D. Landon, H. Staats, and L. Feng.* Duke University, Durham, NC.
- #3427 **Poster Board Number** H572
Cetylpyridinium chloride (CPC) disrupts phosphatidylinositol 4,5-bisphosphate (PIP₂) nanoscale clustering and protein interactions in immune cells. *D. J. Wagner, B. M. Aho, I. O. Dostie, S. T. Hess, and J. A. Gosse.* University of Maine, Orono, ME.
- #3428 **Poster Board Number** H573
Protein Corona-Aware Multi-Task modeling for Nanoparticle Immunotoxicity. *S. Gopala, W. Chou, K. Li, and A. Canchola.* University of California, Riverside, Riverside, CA.
- #3429 **Poster Board Number** H574
Uncovering the Impact of Common Antimicrobial Cetylpyridinium Chloride on Mast Cell Degranulation-Associated Mitochondrial Dynamics. *E. Biro, S. Plummer, J. Eom, B. Obeng, M. Tasker, D. Wagner, and J. A. Gosse.* University of Maine, Orono, ME.
- #3430 **Poster Board Number** H575
Investigating an *in vitro* method for determining the dermal and respiratory allergenic potential of proteins. *S. Mochizuki¹, L. Yiting¹, Y. Satoda¹, H. Mizumachi¹, Y. Takahashi¹, T. Inoue², and Y. Ito¹.* ¹Kao Corporation, Tochigi, Japan; and ²Frontier Co., Ltd., Fukuoka, Japan. Sponsor: H. Mizumachi, Japanese Society of Toxicology
- #3431 **Poster Board Number** H576
Involvement of damage-associated molecular patterns (DAMPs) in the immune checkpoint inhibitor-induced myocarditis in A/J mice. *J. Matsushita¹, C. Kazama¹, K. Miwa¹, M. Goto¹, K. Kumagai², and K. Chiba¹.* ¹Daiichi Sankyo Co., Ltd., Edogawa-ku, Japan; and ²Daiichi Sankyo Inc., Basking Ridge, NJ. Sponsor: J. Matsushita, Japanese Society of Toxicology
- #3432 **Poster Board Number** H577
Glycolytic metabolism of CD8⁺ T cells affects susceptibility to human leukocyte antigen-mediated abacavir-induced hypersensitivity. *T. Susukida^{1,2}, Y. Sun¹, N. Arakawa¹, T. Hirao³, T. Mizuno⁴, S. Aoki⁵, K. Ito⁵, and Y. Hayakawa².* ¹National Institute of Health Sciences, Kanagawa, Japan; ²University of Toyama, Toyama, Japan; ³International University of Health and Welfare, Tochigi, Japan; ⁴The University of Tokyo, Tokyo, Japan; and ⁵Chiba University, Chiba, Japan. Sponsor: T. Susukida, Japanese Society of Toxicology
- #3433 **Poster Board Number** H578
Comparing macrophage differentiation from monocytes isolated via negative or positive magnetic bead selection and performance in an immunotoxicity assay. *M. Nautiyal, S. Kelsey, L. Nguyen, O. Monazah, A. Menezes, and A. Sharma.* Lonza Durham, Morrisville, NC. Sponsor: *K. Dunnick*
- #3434 **Poster Board Number** H579
tBHQ inhibits dendritic cell-mediated CD4⁺ T cell activation in a Nrf2-dependent manner. *S. Awali, and C. E. Rockwell.* Michigan State University, East Lansing, MI.
- #3435 **Poster Board Number** H580
Human cell-based miRNA investigation of occupational allergic asthma pathways. *F. C. Passoni¹, F. Liviero², G. Melzi¹, E. Corsini¹, M. Marinovich¹, and V. Galbiati¹.* ¹Universita Degli Studi Di Milano, Milan, Italy; and ²Universita Di Padova, Padova, Italy.
- #3436 **Poster Board Number** H581
Prenatal exposure to inorganic arsenic and immune cell abundances in newborns. *S. Wang.* National Health Research Institutes, Miaoli County, Taiwan. Sponsor: *K. Mann*

- #3437 **Poster Board Number** H582
Investigating the Impact of Irregularly-shaped PET Microplastics (1–20 µm) on Macrophage Function Using a Comparative Biology Approach with *Xenopus laevis* and a Human Cell Line. R. Lombardo, F. De Jesús Andino, and J. Robert. University of Rochester School of Medicine and Dentistry, Rochester, NY.
- #3438 **Poster Board Number** H583
Intracellular HLA-drug interaction in keratinocytes drives HLA-B*57:01-dependent abacavir skin toxicity. S. Aoki, A. Kazaoka, S. Fujimori, Y. Yamada, T. Susukida, and K. Ito. Chiba University, Chiba, Japan. Sponsor: S. Aoki, Japanese Society of Toxicology
- #3439 **Poster Board Number** H584
Single-cell analysis reveals AhR-dependent myeloid reprogramming and myeloid-derived suppressor cell migration following TCDD Exposure. S. Thada, C. Weyer-Nichols, T. H. Carter, A. Marudamuthu, M. Palrasu, P. Nagarkatti, and M. Nagarkatti. School of Medicine, UofSC, Columbia, SC.
- #3440 **Poster Board Number** H585
Optimizing Antibody Selection and Gating Strategy for Cynomolgus Monkey Bone Marrow Immunophenotyping by Flow Cytometry. X. Wang, G. Ling, and Y. Chen. Suzhou Frontage New Drug Development Co., Ltd., Suzhou, China.
- #3441 **Poster Board Number** H586
Development of human alveolar macrophage model cell lines for the assessment of immunotoxicity of nanoparticles. S. Toda¹, I. Mizoguchi¹, Y. Katahira¹, N. Yamaguchi¹, E. Horio¹, S. Miyakawa¹, M. Igarashi¹, N. Qu¹, E. Kuroda², T. Ashikaga³, and T. Yoshimoto¹. ¹Institute of Medical Science, Tokyo Medical University, Tokyo, Japan; ²Department of Immunology, Hyogo College of Medicine, Hyogo, Japan; and ³Division of Genome Safety Science, National Institute of Health Sciences, Kanagawa, Japan. Sponsor: T. Ashikaga, Japanese Society of Toxicology
- #3442 **Poster Board Number** H587
A Systematic Review and Weight of Evidence Evaluation on the Immunosuppressive Potential of Xylene. L. G. Higgins¹, K. Morris-Schaffer², S. Hearon³, S. Dahlberg², E. Freeman⁴, F. Faulhammer⁵, N. Aygun Kocabas⁶, and M. Rooseboom⁷. ¹Penman Consulting Ltd/LOA vzw, Brussels, Belgium; ²Exponent Inc, New York, NY; ³Exponent Inc, Austin, TX; ⁴Exponent Inc, Washington, DC; ⁵BASF SE, Ludwigshafen, Germany; ⁶TotalEnergies Refining & Chemicals, Seneffe, Belgium; and ⁷Shell Global Solutions International B.V, The Hague, Netherlands.
- #3443 **Poster Board Number** H588
Sex-Specific Immunotoxic Effects of Pesticides on Hematopoiesis. P. Ghatnekar, C. A. Baria, M. Gerami, L. Martin-Martinez, J. Navarro, J. Young, and J. O. Manilay. University of California Merced, Merced, CA. Sponsor: J. Manilay, American Association of Immunologists
- #3444 **Poster Board Number** H589
Imaging analysis of the effects of Zn deficiency during pregnancy on placental tissues. T. Kido¹, H. Yanagisawa¹, M. Tsunoda², and M. Suka¹. ¹The Jikei University School of Medicine, Tokyo, Japan; and ²National Defense Medical College, Saitama, Japan.
- #3445 **Poster Board Number** H590
Recapitulating Immune-Driven Hepatotoxicity Using a Liver Microphysiological Platform. J. Then¹, I. Georgiades¹, E. Richardson¹, C. Roper², and T. Kostrzewski¹. ¹CN-Bio, Cambridge, United Kingdom; and ²Roper Toxicology Consulting Limited, Edinburgh, United Kingdom.
- #3446 **Poster Board Number** H591
Comparative uptake of perfluorooctanoic acid (PFOA) from water or milk matrices in an *in vivo* mouse model. K. M. Younce, M. Carroll, S. Streeter, E. Gupta, E. Hass, C. Schmokel, S. Mermer, and J. DeWitt. Oregon State University, Corvallis, OR.

- #3447 **Poster Board Number H592**
PET Imaging of Myeloid Cell Modulation in a Mouse Tumor Model. S. Kumar¹, K. Jiang¹, A. Giddabasappa¹, N. Keliher², K. Maresca², and V. Vaidya². ¹Pfizer, San Diego, CA; and ²Pfizer, Cambridge, MA.
- #3448 **Poster Board Number H593**
Plant-derived compound sulforaphane suppresses activation and functional marker expression in primary murine NK cells. T. Fu, E. M. Gardner, and C. E. Rockwell. Michigan State University, East Lansing, MI.
- #3449 **Poster Board Number H594**
 Δ^9 -tetrahydrocannabinol impairs enhanced IFN γ secretion associated with chronic HIV infection in primary human monocyte-CD8⁺ T cell co-cultures. J. Marty^{1,2,3}, R. Crawford^{1,3}, P. Gulick^{1,4}, and N. Kaminski^{1,3,5,6}. ¹Michigan State University, East Lansing, MI; ²Department of Microbiology Genetics and Immunology, East Lansing, MI; ³Institute for Integrative Toxicology, East Lansing, MI; ⁴Department of Osteopathic Medicine, East Lansing, MI; ⁵Department of Pharmacology and Toxicology, East Lansing, MI; and ⁶Center for Research on Ingredient Safety, East Lansing, MI.
- #3450 **Poster Board Number H595**
Cholesterol esterification in macrophages: The effects of ACAT1 on macrophage activity. T. Hu, E. Abramova, C. Guo, H. Sandhu, J. Liu, and A. Gow. Rutgers, The State University of New Jersey, Piscataway, NJ.
- #3451 **Poster Board Number H596**
A Novel Method for Enhanced Bone Marrow Collection in Non-human Primates: Improving Yield and Cell Viability for Downstream Analysis. J. M. Hilditch¹, Q. Zhang², and A. LaRoche¹. ¹Biomere, Worcester, MA; and ²JOINN Laboratories, Suzhou, China.
- #3452 **Poster Board Number H597**
Comparison of Immunological Function and Ability to Produce ADA to Drug Products for Neo-Thy versus CD34 Immune-Humanized Mouse Models. E. Svyatova¹, S. Gharaie¹, E. Elsheikh¹, R. Becker¹, M. Chow¹, N. Smith², A. Bell³, K. Gabrielson⁴, J. Resiliac¹, K. Shea¹, J. Richardson⁵, and K. Howard¹. ¹Division of Applied Regulatory Sciences, OCP/OTS/CDER/U.S.,FDA, Silver Spring, MD; ²Taconic Bioscience, Rensselaer, NY; ³Taconic Biosciences, Rensselaer, NY; ⁴Department of Pathology, School of Medicine, Johns Hopkins University, Baltimore, MD; and ⁵Taconic, Rensselaer, NY.
- #3453 **Poster Board Number H598**
Neo Thy immune humanized mice can produce anti-drug antibodies to support immunogenicity assessment for biological drug products. S. Gharaie¹, R. E. Becker¹, E. A. Svyatova¹, M. Chow¹, E. Elsheikh¹, N. A. Smith², A. J. Bell², M. Singh¹, K. Gabrielson³, K. I. Shea¹, J. Richardson⁴, and K. E. Howard¹. ¹U.S. Food & Drug Administration, Silver Spring, MD; ²Taconic Biosciences, Rensselaer, NY; ³Johns Hopkins School of Medicine, Baltimore, MD; and ⁴Taconic Bioscience, Rensselaer, NY.

PS **Poster Session: Tobacco, ENDS, and Smoking-Related Toxicology I**

Chair(s): Xinrong Chen, ABC Toxicology Consulting.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 1:45 PM–4:15 PM

Abstract #

- #3454 **Poster Board Number H605**
Associations Between Tobacco Smoke Exposure and Cadmium Exposure in the U.S. Population: Findings from NHANES 2015–2020. N. Sarker¹, T. Roh², and G. Sansom¹.
¹Department of Environmental and Occupational Health, School of Public Health, Texas A&M University, College Station, TX; and ²Department of Epidemiology and Biostatistics, School of Public Health, Texas A&M University, College Station, TX.
- #3455 **Poster Board Number H606**
Cytotoxicity of Freebase Nicotine and Its Analogs Using Cellular and Statistical Methods. K. L. Griffin¹, T. Jefferis¹, D. Pruss¹, M. Sengupta², R. X. Sturdivant¹, A. K. Charlton-Sevcik¹, R. M. Strongin², and C. M. Sayes¹. ¹Baylor University, Waco, TX; and ²Portland State University, Portland, OR.
- #3456 **Poster Board Number H607**
Clinically Relevant Doses for Electronic Nicotine Delivery System and Heated Tobacco Product *In Vitro* Testing. M. J. Oldham¹, K. Yoshino², M. Gaca³, L. Simms⁴, Y. Kanemaru⁵, U. Doshi⁶, R. Wiecek⁷, I. Shigeaki², H. Ohara², A. A. Rostami⁶, A. Salehi⁶, A. K. Madl⁸, M. Hollings⁹, S. Dudi⁴, J. Zhang⁶, A. K. Kuczaj¹⁰, B. Keyser¹¹, R. Leverette¹¹, S. Gilliland III¹², A. Gupta¹³, A. R. Kolli¹⁰, R. Labib¹², F. K. Lucci¹⁰, K. Papikinos⁴, and T. Antonijevic¹⁴, et al. ¹JUUL Labs, Washington, DC; ²JTI SA, Yokohama, Japan; ³British American Tobacco, London, United Kingdom; ⁴Imperial Brands, Bristol, United Kingdom; ⁵JTI SA, Geneva, Switzerland; ⁶Altria Client Services, Richmond, VA; ⁷Imperial Brands, Hamburg, Germany; ⁸Valeo Sciences LLC, Ladera Ranch, CA; ⁹LabCorp, Harrogate, United Kingdom; ¹⁰Phillip Morris Products S.A., Neuchâtel, Switzerland; ¹¹RAI Services, Winston-Salem, NC; ¹²Sapphire Sciences, Richmond, VA; ¹³Battelle, Columbus, OH; and ¹⁴ScitoVation, LLC, Durham, NC.
- #3457 **Poster Board Number H608**
Impact of Benzaldehyde and Veratrylaldehyde on Acrolein-Induced Cytotoxicity. Y. B. Twum¹, G. Pagan², L. Fox¹, A. Rebok¹, V. R. Ungarala¹, Z. Bitzer¹, and T. E. Spratt¹. ¹Penn State College of Medicine, Hershey, PA; and ²Penn State University, University Park, PA.
- #3458 **Poster Board Number H609**
High Levels of Toxic Aldehydes in High-Puff Number Disposable E-cigarettes. E. Omaiye¹, W. Luo², K. McWhirter², M. Wong¹, J. Pankow², and P. Talbot¹. ¹University of California Riverside, Riverside, CA; and ²Portland State University, Portland, OR.
- #3459 **Poster Board Number H610**
Thirdhand Vape Exposures Induce Immune Dysregulation and Epigenetic Alterations in a Mouse Model. C. Igwe, K. Sharma, M. Babayev, D. Rousselle, C. D. Ekpruke, A. Buechlein, C. Hemmerich, D. B. Rusch, P. Silveyra, and S. Commodore. Indiana University Bloomington, Bloomington, IN.
- #3460 **Poster Board Number H611**
E-Cigarette Modulation of T Helper Cell Subsets: Impaired IL-17 Production in Th-17 Cells. O. Hiltbrand^{1,2}, N. Kukulj^{1,2}, and K. K. Mann^{1,2}. ¹Lady Davis Institute, Montréal, QC, Canada; and ²Department of Pharmacology & Therapeutics, McGill University, Montréal, QC, Canada.

- #3461 **Poster Board Number H612**
Oral-Immune Co-Culture Model Reveals Significantly Lower Toxicity of Tobacco-free Nicotine Pouches Compared to Cigarettes. *M. Stevenson*¹, *L. Scott*², *J. Kelsall*², *E. Hoffman*², *V. Hutter*², *F. Chapman*¹, *R. Wieczorek*³, *E. Trelles-Sticken*³, *S. Pour*³, *T. Evenburg*³, and *L. Simms*¹.
¹Imperial Brands PLC, Bristol, United Kingdom; ²ImmuONE Ltd, Stevenage, United Kingdom; and ³Reemtsma Cigarettenfabriken GmbH, An Imperial Brands PLC company, Hamburg, Germany.
- #3462 **Poster Board Number H613**
Progressive Immunologic Dysregulation with Exposure to Tobacco Smoke in a Model of Chronic Obstructive Pulmonary Disease (COPD). *K. E. Pinkerton*, *C. W. Wu*, *T. J. Cannon*, *A. Durainath*, and *L. Wang*. University of California, Davis, Davis, CA.
- #3463 **Poster Board Number H614**
Low dose, sub-chronic exposure to Dihydroxyacetone (DHA) causes increased heart strain, alters cardiac mitochondrial metabolism, and induces DNA damage. *H. J. Levi*¹, *A. Hernandez*¹, *J. Hedlich-Dwyer*¹, *J. Masjoan-Juncos*¹, *S. Aggarawal*², and *N. Gassman*¹. ¹University of Alabama at Birmingham, Birmingham, AL; and ²Florida International University, Miami, FL.
- #3464 **Poster Board Number H615**
Effects of long-term electronic-cigarette (E-cig) aerosol exposure on kidney health in diabetic mice. *A. Raja*¹, *C. Awada*¹, *A. Veerappan*¹, *T. Gordon*¹, *J. T. Zelikoff*¹, and *E. Jaimes*². ¹NYU Grossman School of Medicine, New York, NY; and ²Memorial Sloan Kettering Cancer Center, New York, NY.
- #3465 **Poster Board Number H616**
Multi-Omics Profiling Reveals Sex-Specific Oral Health Disruptions Associated with Vaping. *X. He*¹, *M. Meister*¹, *J. Jeon*², *A. Pitchai*³, *Q. Zhang*¹, *P. Cushenan*⁴, *S. Weaver*⁵, *I. Yang*², *J. H. Shannahan*³, and *C. Wright*¹. ¹UL Research Institutes' Chemical Insights, Marietta, GA; ²Emory University, Atlanta, GA; ³Purdue University, West Lafayette, IN; ⁴Soft Smiles LLC, Marietta, GA; and ⁵Georgia State University, Atlanta, GA.
- #3466 **Poster Board Number H617**
Proteomic Evidence of Hepatic Metabolic Dysregulation Induced by E-cigarette Aerosols. *V. Caruana*, *R. Juran*, *N. Kukolj*, *C. Jafaar*, *C. J. Baglole*, and *K. K. Mann*. McGill University, Montreal, QC, Canada.
- #3467 **Poster Board Number H618**
Pancreatic Ductal Adenocarcinoma: Enduring Transcriptomic Changes Resulting from Smoking History. *E. Im*, and *G. Acquah-Mensah*. Massachusetts College of Pharmacy and Health Sciences (MCPHS University), Worcester, MA.
- #3468 **Poster Board Number H619**
Evaluating the direct impact of heated tobacco and cigarette smoke exposure on lung adenocarcinoma cell biology. *G. P. Barros*, *P. R. Scharf*, and *S. P. Farsky*. Universidade de São Paulo, São Paulo, Brazil.
- #3469 **Poster Board Number H620**
An integrated Lung-on-Chip platform investigating molecular responses to whole cigarette smoke exposure. *A. Sengupta*¹, *N. Grangier*¹, *O. Wisser*², *P. Zamprognio*³, *T. Krebs*², *O. T. Guenat*⁴, and *N. Hobi*³. ¹Alexis Technologies, Bern, Switzerland; ²Vitrocell Systems GmbH, Waldkirch, Germany; ³AlveoliX AG, Swiss Organs-On-Chip, Bern, Switzerland; and ⁴ARTORG, University of Bern, Bern, Switzerland. Sponsor: *A. Stucki*
- #3470 **Poster Board Number H621**
PDGF-BB as a Mediator of Pulmonary Microvascular Injury Following E-Cigarette Exposure. *H. Alkhadrawi*, *J. Abdalrahman*, *D. M. Panchal*, *K. Dese*, *C. Bartilson*, *K. Day*, and *M. Bennewitz*. West Virginia University, Morgantown, WV.

- #3471 **Poster Board Number H622**
E-Cigarette Aerosols Induce Oxidative Stress and Inflammation in Corneal Epithelial Cells: Potential Risk of Vaping to Ocular Surface. T. Lin, and Y. Huang. Missouri University of Science and Technology, Rolla, MO.
- #3472 **Poster Board Number H623**
Polycyclic aromatic hydrocarbons measured following electronic dabbing of *Cannabis* and *Cannabis*-derived products. A. K. Bauer¹, F. Friday¹, G. Brusoe¹, M. Armstrong¹, S. Goldman², and N. Reisdorph¹. ¹University of Colorado Anschutz Medical Center, Aurora, CO; and ²Kaycha Laboratories, Denver, CO.
- #3473 **Poster Board Number H624**
Characterization of Flavored E-cigarettes via Untargeted Mass Spectrometry to Identify Flavor Specific E-cigarette Markers of Exposure. T. Rodriguez, D. Jones, Y. Siu, and K. Farrell. NYU Langone, New York, NY. Sponsor: T. Gordon
- #3474 **Poster Board Number H625**
Disposable E-Cigarettes, Hidden Toxic Metals: Implications for Human Exposure. M. R. Salazar, X. C. Li, L. Saini, C. N. Corley, R. L. Evans, K. E. Pinkerton, A. K. Madl, T. B. Nguyen, and B. A. Poulin. University of California, Davis, CA.
- #3475 **Poster Board Number H626**
Contribution of Metals, Carbonyls and TSNA's to the Excess Lifetime Cancer Risk of Illicit Flavored Disposable E-cigarette Products Available on the US Market. N. V. Ivanov, A. Pennington, F. Ayala-Fierro, M. J. Oldham, and I. G. Gillman. Juul Labs, Washington, DC.
- #3476 **Poster Board Number H627**
Exposure assessment of toxicants in slim cigarette consumers. C. Ma. Zhengzhou Tobacco Research Institute of CNTC, Zhengzhou, China. Sponsor: R. Meng
- #3477 **Poster Board Number H628**
Accounting for Population Variability in Simulation Modeling of Tobacco Product Constituents. M. Jacketti, B. Asgharian, O. Price, A. Meade, D. Oldson, S. Beaulieu, and J. Schroeter. Applied Research Associates, Inc., Raleigh, NC.
- #3478 **Poster Board Number H629**
Cancer Reference Estimates for Non-Mutagenic Flavoring Substances of Potential Concern. F. Ayala-Fierro, and M. Oldham. Juul Labs Inc, Washington, DC.
- #3479 **Poster Board Number H630**
Tobacco and Nicotine Product Assessments: Quantitative Derivation of Excess Lifetime Cancer Risk for Oral Route of Exposure. C. K. West. Reynolds American Services Company, Winston-Salem, NC.

Monday, March 23, 1:45 PM to 4:15 PM, Exhibit Hall B, Convention Center

PS Poster Session: Air Pollution Toxicology I

Chair(s): Brian Hughes, Michigan State University.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 1:45 PM–4:15 PM

Abstract #

- #3480 **Poster Board Number J632**
G Protein Coupled Estrogen Receptor Modulation of Pulmonary and Neuroinflammatory Responses to Acute Inhaled Wood Smoke. S. Yazzie, E. Lim, M. Oh, E. Barr, T. Vue, E. Prossnitz, E. Prossnitz, B. Phinney, S. Leng, J. Gillette, and K. Zychowski. University of New Mexico, Albuquerque, NM.
- #3481 **Poster Board Number J633**
HIF-1 α Regulates Acrolein-Induced Oxidative Stress and Antioxidant Signaling in Differentiated Human Bronchial Epithelial Cells under Hypoxic Conditions. A. Ashraf, and E. Bruce. Baylor University, Waco, TX.
- #3482 **Poster Board Number J634**
Vinyl chloride potentiates liver injury caused by chronic alcohol consumption in mice. J. Chen, C. Vanderpuye, P. Muddasani, S. Chaudhary, J. Li, G. E. Arteel, and J. I. Beier. University of Pittsburgh, Pittsburgh, PA.
- #3483 **Poster Board Number J635**
Aryl hydrocarbon receptor signaling in club cells promotes Th17-driven lung injury following inhalation exposure to environmentally persistent free radicals. R. Pathak^{1,2}, A. Kumar^{1,2}, A. Ferrier^{1,2}, D. Burk^{1,2}, and S. A. Cormier^{1,2}. ¹Louisiana State University, Baton Rouge, LA; and ²Pennington Biomedical Research Center, Baton Rouge, LA.
- #3484 **Poster Board Number J636**
Exposure to Hazardous Waste Emissions Alters Human Physiology: Findings from a Community-Based Pilot Study. A. Kumar^{1,2}, C. Guo³, Q. Sarumi⁴, C. Courtney⁴, S. Campagna⁴, J. Richmond-Bryant³, and S. A. Cormier^{1,2}. ¹Louisiana State University, Baton Rouge, LA; ²Pennington Biomedical Research Center, Baton Rouge, LA; ³North Carolina State University, Raleigh, NC; and ⁴University of Tennessee, Knoxville, TN.
- #3485 **Poster Board Number J637**
Characterization of Murine Microglial Interactions Induced by Chronic Exposure to Diesel Exhaust. J. G. Domaoal¹, G. Merrihew¹, D. Lundblad¹, H. C. Dye¹, E. T. Scott¹, R. Gupta², A. Louie², M. Riffle¹, J. W. MacDonald¹, T. K. Bammler¹, M. J. MacCoss¹, M. T. Kleinman³, J. A. Araujo², and J. Marsillach¹. ¹University of Washington, Seattle, WA; ²University of California, Los Angeles, CA; and ³University of California, Irvine, CA.
- #3486 **Poster Board Number J638**
Co-Exposure of 4th Generation E-Cigarette and Environmentally Persistent Free Radicals Impairs Lung Responses in Male Mice. Z. Myles¹, T. Cook², M. Schexnayder³, and A. Noel². ¹Southern University and A&M College, Baton Rouge, LA; ²Louisiana State University, Baton Rouge, LA; and ³IDEXX Laboratories, Westbrook, ME.

- #3487 **Poster Board Number J639**
Neurotoxic consequences of chronic exposure to concentrated ambient fine and ultrafine matter in a novel mouse model of late-onset Alzheimer's disease. J. P. Vu, S. Lim, H. Hsu, M. M. Ortega, Y. Yumiketa, H. Su, R. Kim, A. Farias, I. Hasen, A. Ting, D. Herman, K. Sumikawa, M. T. Kleinman, and M. Kitazawa. University of California Irvine, Irvine, CA.
- #3488 **Poster Board Number J640**
Vascular endothelial dysfunction induced after exposure to environmentally persistent free radicals is mediated by the release of miRNA from the air-blood interface. R. A. Morales, A. Noël, and T. R. Dugas. Louisiana State University, Baton Rouge, LA.
- #3489 **Poster Board Number J641**
Sex differences in the innate immune response to woodsmoke protect the lung function of female mice. M. G. Miller, M. Buford, B. Postma, A. Holian, and C. Migliaccio. University of Montana, Missoula, MT.
- #3490 **Poster Board Number J642**
Volatile Organic Compound Filtration Mitigates Pulmonary Inflammation and Enhances Antihistamine Efficacy in Murine Models of Asthma and Acute Lung Injury. T. Fukuyama¹, C. Ohira¹, K. Tomita², Y. Ota², K. Yano², M. Amano², M. Kaneki¹, A. Yamada³, R. Usui³, Y. Nagai³, M. Nagane¹, and S. Takagi¹. ¹Azabu University, Kanagawa, Japan; ²Shimizu Corporation, Tokyo, Japan; and ³Fuji Industrial Co., Ltd., Kanagawa, Japan.
- #3491 **Poster Board Number J643**
Characterization of combustion emissions from fossil-based vs bio-based plastics. A. Ranpara¹, W. T. Goldsmith¹, T. P. Batchelor¹, H. Leonard¹, V. Nguyen¹, D. Footz², and T. R. Nurkiewicz¹. ¹Department of Physiology, Pharmacology & Toxicology, Center for Inhalation Toxicology (iTOX), West Virginia University, Morgantown, WV; and ²Nexe Innovations, Windsor, ON, Canada.
- #3492 **Poster Board Number J644**
Open-air combustion emissions simulation and characterization of various wood species and synthetic materials. W. T. Goldsmith¹, A. Ranpara¹, T. Batchelor¹, H. Leonard¹, V. Nguyen¹, R. Burns², J. Schuler², D. Kalafut³, M. Wilson³, C. Choo³, D. Harper⁴, D. Footz⁵, and T. Nurkiewicz¹. ¹Center for Inhalation Toxicology (iTOX), West Virginia University, Morgantown, WV; ²School of Natural Resources and the Environment, West Virginia University, Morgantown, WV; ³Underwriters Laboratories Research Institutes' Chemical Insights, Marietta, GA; ⁴Center for Renewable Carbon, University of Tennessee, Knoxville, TN; and ⁵NEXE Innovations, Windsor, ON, Canada.
- #3493 **Poster Board Number J645**
High-throughput toxicity assessment of ambient particulate matter enabled by a microfluidic cellular exposure platform. A. Kaehr, M. Moe, H. Lu, and N. Ng. Georgia Institute of Technology, Atlanta, GA.
- #3494 **Poster Board Number J646**
HEPA Filtration Modifies Pulmonary Responses to Episodic Eucalyptus Smoke Exposure in Male Long-Evans Rats. B. R. Yoo¹, C. N. Miller², J. A. Dye³, H. H. Nguyen¹, M. C. Schladweiler², M. L. Moore¹, P. Evansky³, M. Higuchi³, M. Monsees², M. I. Gilmour³, and W. C. Williams³. ¹ORISE/US EPA, Research Triangle Park, NC; ²US EPA, Research Triangle Park, NC; and ³Retired, US EPA, Research Triangle Park, NC.
- #3495 **Poster Board Number J647**
Predicting Mixture Toxicity of Volatile Organic Compounds in Air-Liquid Interface Cultures Using a Component Based Approach. O. C. Lampe, E. C. Vitucci, C. L. Cannon, W. A. Chiu, and N. M. Johnson. Texas A&M, College Station, TX.

- #3496 **Poster Board Number J648**
Effects of exposure to Canadian wildfire particulate matter on airway reactivity, mucus production, and inflammation in advanced *in vitro* and *ex vivo* models. L. Bazina¹, G. M. Deloid¹, J. Jude¹, T. Bruggemann², M. Rahman², R. Panettieri¹, B. Levy², Y. Tesfaigzi¹, and P. Demokritou¹. ¹Rutgers University, New Brunswick, NJ; and ²BWH, Cambridge, MA.
- #3497 **Poster Board Number J649**
Quantitative Assessment of Indoor Asbestos Fiber Resuspension: Comparing Theoretical Predictions to Empirical Data. Q. Perry¹, B. Deckard¹, M. Stevens², G. Abele², and D. Paustenbach¹. ¹TRC Companies, Jackson, WY; and ²TRC Companies, Denver, CO.
- #3498 **Poster Board Number J650**
Sex-Dependent Effects of Chronic Traffic-Related Air Pollution Exposure on Pulmonary Macrophage Polarization and Neuronal Atrophy. H. Park¹, M. Cheng¹, A. E. Valenzuela¹, M. C. Domanico², J. Manzano², A. Ikeda¹, B. A. Martinez-Sammons², K. J. Bein^{3,2}, A. S. Wexler^{3,4}, L. S. Van Winkle^{2,5}, and P. J. Lein^{1,3}. ¹Molecular Biosciences, University of California, Davis, Davis, CA; ²Center for Health and the Environment, University of California, Davis, Davis, CA; ³Air Quality Research Center, University of California, Davis, Davis, CA; ⁴Mechanical and Aerospace Engineering, University of California, Davis, Davis, CA; and ⁵Anatomy, Physiology and Cell Biology, University of California, Davis, Davis, CA.
- #3499 **Poster Board Number J651**
Limited PAHs exposure to ESCs leads to neurodevelopmental alterations in human brain organoids. B. Jeong, N. Sarodaya, K. Olesen, W. Kuenzinger, R. Dey, L. Li, H. Jin, and Y. Han. St. Jude Children's Research Hospital, Memphis, TN.

Monday, March 23, 1:45 PM to 4:15 PM, Exhibit Hall B, Convention Center

PS Poster Session: Respiratory Toxicology I

Chair(s): Alison Elder, University of Rochester Medical Center; and Jennifer Larson-Casey, University of Alabama at Birmingham.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 1:45 PM–4:15 PM

Abstract #

- #3500 **Poster Board Number J652**
Pathway-Based Assessment of PAH Mixture Toxicity Utilizing Benchmark Dose Modeling. M. L. Ramirez¹, V. C. Colvin¹, R. S. McClure², G. Many², K. M. Waters^{1,2}, and S. C. Tilton¹. ¹Oregon State University, Corvallis, OR; and ²Pacific Northwest National Laboratory, Richland, WA.
- #3501 **Poster Board Number J653**
Integrated Dosimetry Quantification for Aerosol Delivery at the Air-Liquid Interface in a Lung Cell Co-Culture System. T. Jefferis, D. Stevens, W. Su, and C. Sayes. Baylor University, Waco, TX.
- #3502 **Poster Board Number J654**
Sex- and Fuel Type-Specific Effects of Wood Smoke Condensate Exposure in Primary Human Airway Epithelial Cells. M. J. Rodriguez¹, Y. Kim², and M. E. Rebuli¹. ¹University of North Carolina at Chapel Hill, Chapel Hill, NC; and ²U.S. Environmental Protection Agency, Research Triangle Park, NC.

- #3503 **Poster Board Number J655**
Investigation of Cellular and Molecular Mechanisms of PFAS-Induced Lung Inflammation in a Human Alveolar Epithelial Cell Line. *S. Macheri, A. Ashraf, and E. Bruce.* Baylor University, Waco, TX.
- #3504 **Poster Board Number J656**
Maresin 1 Selectively Enhances Pro-reparative IL-22 Production in Alveolar Macrophages Following Organic Dust Exposure. *E. O. Oyewole^{1,2}, K. Jones^{1,2}, C. McDermott^{1,2}, and T. M. Nordgren².* ¹Colorado State University, Fort Collins, CO; and ²University of Nebraska Medical Center, Omaha, NE.
- #3505 **Poster Board Number J657**
Toxicity of diacetyl or 2,3-butanedione, a flavor enhancer, and its implications on aberrant bronchial epithelial repair. *M. Malalage, J. Dunn, S. Macheri, and E. Bruce.* Baylor University, Waco, TX.
- #3506 **Poster Board Number J658**
Deriving a Mixture of Combustible Materials in American Homes and Fire-prone Biomes to Elucidate the Toxicity of Wildland-Urban Interface Fires. *C. K. Chou¹, A. L. Holder², S. Masood¹, A. Nored³, G. Walters¹, W. Bai¹, I. Pavlovic⁴, P. Tellez⁴, D. R. Weise⁵, J. Samet³, M. I. Gilmour³, Y. H. Kim², and J. E. Rager¹.* ¹UNC Chapel Hill, Chapel Hill, NC; ²Office of Air Quality Planning and Standards, US EPA, Research Triangle Park, NC; ³Center for Public Health and Environmental Assessment, US EPA, Research Triangle Park, NC; ⁴US EPA Pacific Southwest, Region 9, Los Angeles, CA; and ⁵USDA Forest Service, Pacific Southwest Research Station, Riverside, CA.
- #3507 **Poster Board Number J659**
A Novel *in vitro* Toxicity Assay for Predicting Inhalation Toxicity in Rats. *M. Gi, A. Vachiraarunwong, M. Fujioka, Y. Kawamura, A. Kakehashi, H. Wanibuchi, and S. Suzuki.* Osaka Metropolitan University Graduate School of Medicine, Osaka, Japan.
- #3508 **Poster Board Number J660**
A Modular Smoke Exposure Platform for *In Vitro* Modeling of Burn Pit Emissions. *J. E. Blackburn, W. Crowe, K. Luthy, A. Atala, and S. V. Murphy.* Wake Forest University, Winston-Salem, NC.
- #3509 **Poster Board Number J661**
Using computational fluid dynamics to estimate the efficiency of dosing by varying the respiration rate and tidal volume of the rat and changing the position of the rat snout using an inhalation directed flow chamber. *S. Moore.* Labcorp, Huntingdon, United Kingdom.
- #3510 **Poster Board Number J662**
Evaluating Chemical and Clinical Spaces: The Bifunctional Reactivity of Respiratory Sensitizers in Comparison to Skin Sensitizers and Non-Sensitizing Irritants. *N. Sadekar¹, J. Muldoon¹, D. Botelho¹, A. M. Bowden², C. Ryan³, and F. Gerberick⁴.* ¹Research Institute for Fragrance Materials, Mahwah, NJ; ²Unilever Safety, Environmental & Regulatory Science, Colworth Science Park, Sharnbrook, United Kingdom; ³ToxTech Solutions, Milan, IN; and ⁴GF3 Consultancy, Olde West Chester, OH.
- #3511 **Poster Board Number J663**
Indole-3-Carbinol Reprograms Endothelial and Immune Cell Dynamics to Suppress SEB-Induced Inflammation: A Single-Cell RNA Velocity and Pathway Modeling Study. *A. Marudamuthu, S. Thada, M. Palrasu, H. FNU, P. Nagarkatti, and M. Nagarkatti.* University of South Carolina, Columbia, SC.

- #3512 **Poster Board Number J664**
Development and Validation of a Human Pluripotent Stem Cell-derived Multicellular Alveolar Model for Toxicity Assessment and Disease Modeling. C. Hua^{1,2}, C. Ma¹, J. Zhao², P. Shang¹, X. Li², and F. Xie¹. ¹Zhengzhou Tobacco Research Institute of CNTC, Zhengzhou, China; and ²Beijing Life Science Academy, Beijing, China. Sponsor: *R. Meng*
- #3513 **Poster Board Number J665**
Toxicity after exposure to inhaled amorphous Silicon Dioxide Nanoparticles in Golden Syrian Hamsters. R. P. Renda, and J. M. Cerreta. St. John's University, Queens, NY.
- #3514 **Poster Board Number J666**
Increased living temperature alters the cardiopulmonary response of male and female mice to benzene-toluene-ethylbenzene-xylene (BTEX). S. C. Toler¹, M. Fyle¹, L. Klein², M. Vaziri², B. Yoo², A. Lewis², C. Davis², W. Oshiro³, P. Evansky³, I. Gilmour³, A. Farraj³, and M. Hazari³. ¹University of North Carolina, Chapel Hill, Chapel Hill, NC; ²Oak Ridge Institute for Science and Education, Oak Ridge, TN; and ³Public Health and Integrated Toxicology Division, Center for Public Health and Environmental Assessment, U.S. Environmental Protection Agency, Research Triangle Park, NC.
- #3515 **Poster Board Number J667**
A Low-Cost, Versatile Cigarette-Style Combustion Generator: System Development and Validation in Mice Acutely Exposed to Simulated Military Burn Pit Emissions. D. A. Herman, A. Jimenez-Chavez, E. J. Rangel, I. Hasen, A. Ting, A. De Vizcaya Ruiz, and M. T. Kleinman. University of California, Irvine, Irvine, CA.
- #3516 **Poster Board Number J668**
Transcriptomic characterization of metabolic competency in reconstructed human respiratory epithelium (RHRE). A. O. Stucki¹, N. Roldan¹, A. Boos², P. Demuth³, M. Sharma¹, R. Landsiedel^{3,4}, and A. J. Clippinger¹. ¹PETA Science Consortium International e.V., Stuttgart, Germany; ²Helmholtz Center Munich, Neuherberg, Germany; ³BASF SE, Ludwigshafen, Germany; and ⁴Free University of Berlin, Berlin, Germany.
- #3517 **Poster Board Number J669**
Comparative Histopathological Analyses of the Respiratory Tract in Preclinical Species Exposed to Dry Powder Vehicles in Inhalation Toxicology Studies. P. Novakovic, W. Lee, S. Groom, J. Younan, L. Kolodzieyski, and K. McNally. ITR Laboratories Canada Inc, Baie D Urfe (Montreal), QC, Canada.
- #3518 **Poster Board Number J670**
Safe-by-Design Assessment of Aerosolized Hair-Care Products Using an *In Vitro* Inhalation Model. K. Schwarz¹, D. Ritter¹, T. Hansen¹, and H. Assaf Vandecasteele². ¹Fraunhofer Institute for Toxicology and Experimental Medicine, Hannover, Germany; and ²L'ORÉAL Research & Innovation, Clichy, France. Sponsor: *S. Escher*
- #3519 **Poster Board Number J671**
Utilizing Simultaneous Ultra-Sensitive Assessment of Diaphragmatic and Skeletal Muscle Force, Peripheral Train-of-Four Stimulation Predicts Diaphragmatic Recovery with Cisatracurium in a Non-Human Primate Model. S. Roof, Y. Ueyama, and R. Hamlin. QTest Labs, Columbus, OH.
- #3520 **Poster Board Number J672**
Stress-Induced DNA Damage Activates cGAS-STING Signaling to Drive Senescence and Inflammation in 3D Airway Cultures. S. B. Shaikh, and I. Rahman. University of Rochester, Rochester, NY.
- #3521 **Poster Board Number J673**
Wood Smoke Particulate Attenuates Antiviral Cytokine Production Against Live Attenuated Influenza Virus in Differentiated Human Nasal Epithelial Cells. W. Soerianto, B. M. Ehrmann, C. Robinette, C. A. Brooks, I. Jaspers, and M. E. Rebuli. University of North Carolina at Chapel Hill, Chapel Hill, NC.

- #3522 **Poster Board Number** J674
Inhalation route of administration imparts greater variability in systemic toxicokinetics dependent upon of molecular class. J. L. Jilek¹, E. Hackshaw¹, V. Chavez¹, and J. Baker². ¹Labcorp, Madison, WI; and ²Labcorp, Huntingdon, United Kingdom.
- #3523 **Poster Board Number** J675
IL-10 Deficiency Improves Lung Function in Mouse Offspring Exposed *In Utero* to Electronic-cigarette Aerosols. C. Ingram¹, A. Noël¹, T. Cook¹, and M. Schexnayder². ¹Louisiana State University, Baton Rouge, LA; and ²Louisiana State University, Westbrook, ME.
- #3524 **Poster Board Number** J676
Exceptional Emitted-to-Delivered Aerosol Efficiency of theBuxcoPre-Clinical Inhalation System: Bridging Theory and Experiment. U. Shemesh, and M. Girand. Harvard Bioscience, Holliston, MA. Sponsor: M. Girand, Safety Pharmacology Society

Monday, March 23, 1:45 PM to 4:15 PM, Exhibit Hall B, Convention Center

PS Poster Session: Pharmaceutical Safety and Drug Discovery

Chair(s): Lindsay Denluck, Schrödinger.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 1:45 PM–4:15 PM

Abstract #

- #3525 **Poster Board Number** J678
From Targets to Toxicity: Interpretable Machine Learning for Organ System Risk Prediction. O. Oechsle, and J. Almond-Thynne. Sable Bio, London, United Kingdom.
 Sponsor: N. Greene
- #3526 **Poster Board Number** J679
Enhancing Drug Safety: Secondary Pharmacology Screening Interpretation through AI-based scientific literature mining. S. A. Ramirez¹, F. Tillier², and E. Desfosses². ¹DiscoveryAI, Saint-Charles, MO; and ²Eurofins Cerep, Celle-l'evescault, France. Sponsor: Y. Zhao
- #3527 **Poster Board Number** J680
Comprehensive Evaluation of Clinically Discontinued Compounds Using an *In Vitro* Secondary Pharmacology Panel to Predict Safety Liabilities. V. Albert¹, D. E. Skinner¹, S. Karnwal¹, L. N. Guili¹, M. Vazquez¹, O. Ledezma¹, R. Shaffer¹, A. Celniker¹, A. De La Cruz¹, M. Caliendo¹, A. M. Hanna¹, L. Galdieri², A. J. King², N. B. Servant¹, and M. Jahic¹. ¹Eurofins DiscoverX, LLC, San Diego, CA; and ²Eurofins Discovery Services North America, LLC, St. Charles, MO. Sponsor: Y. Zhao
- #3528 **Poster Board Number** J681
INVEST44™ is a cost-effective *in vitro* safety panel that identifies off-target effects in early-stage drug discovery. J. R. Woollorton, A. M. Ahona, N. Barbacane, A. D'Andrea, J. D. Lansberry, C. Lay, P. Miller, J. Ries, J. Steffen, and P. A. Valentine. Reaction Biology Corporation, Malvern, PA. Sponsor: A. Eapen
- #3529 **Poster Board Number** J682
A Reproducible, Label-Free Platform for Real-Time Cytotoxicity and Hepatotoxicity Screening. S. Chvatal, D. Sullivan, P. Ellingson, M. Clements, and D. Millard. Axion BioSystems, Atlanta, GA.

#3530	Poster Board Number J683 Off-Target Platelet Sensitisation by Therapeutic Oligonucleotides: Validation of a High-Throughput Screening Approach. W. Tomlinson, P. Cato, C. Jewell, S. Bhaker, A. Johnson, E. Rendall, and N. Dovlatova. Platelet Services Ltd., Nottingham, United Kingdom. Sponsor: N. Dovlatova, Safety Pharmacology Society
#3531	Poster Board Number J684 Development and Validation of High-Throughput <i>In Vitro</i> Assays for Thrombolysis and Thrombolysis Modulation Using Human Whole Blood Clots. S. Albrecht, S. Ramsaroop, and Y. Zhao. Eurofins Discovery Services North America, LLC., St. Charles, MO.
#3532	Poster Board Number J685 Low-Input RNA Sequencing of Liver Microtissues to Study Adverse Drug Effects Across Species and Structural Analogs. M. Colombo, A. Pawlowska, and B. Filippi. InSphero AG, Schlieren, Switzerland. Sponsor: W. Tong
#3533	Poster Board Number J686 Human Intestinal Organoids and Derived Barrier Models for High-Efficiency Assessment of Drug-Induced Gastrointestinal Toxicity. Y. Wang, J. Zhang, J. Zhu, P. Pan, and F. He. Pharmaron Beijing Co., Ltd., Beijing, China. Sponsor: S. Luo
#3534	Poster Board Number J687 Investigating the Toxicity of Novel Cannabinoids from a Native New Zealand Liverwort. M. Howes ¹ , J. Powell ¹ , C. Billington ¹ , M. McCarthy ² , and M. Caddie ³ . ¹ PHF Science, Christchurch, New Zealand; ² PHF Science, Wellington, New Zealand; and ³ IO Ltd, Tauranga, New Zealand.
#3535	Poster Board Number J688 Beyond osimertinib: SGR-5573, a next generation brain-penetrant EGFR inhibitor, overcomes resistance with a favorable safety profile. L. Denluck ¹ , K. Amberg-Johnson ² , J. Xu ² , R. Kannan ² , S. Ellery ³ , S. Kurhade ² , A. Verras ² , J. Guo ² , M. Svensson ² , P. Hsiao ³ , Z. Liu ² , J. Vasoya ² , J. Bell ² , K. Akinsanya ² , K. K. Jenson ² , A. Gerasyuto ² , and M. Liu ² . ¹ Schrödinger, Portland, OR; ² Schrödinger, New York, NY; and ³ Schrödinger, San Diego, CA.
#3536	Poster Board Number J689 Safety Profile Assessment for IND-enabling Studies: Bispecific Antibodies and Antibody-Drug Conjugates (ADCs). L. Ratcliffe ¹ , S. Hill ¹ , S. de Munnik ² , G. van Puijvelde ² , B. Quist ² , L. Scandiuizzi ² , K. Carr ³ , G. Sixsmith ¹ , N. Brown ¹ , C. Hardy ³ , M. Aspinall O'Dea ¹ , N. Jayanth ² , and P. I. Racz ² . ¹ Charles River Laboratories, High Peak, United Kingdom; ² Charles River Laboratories, Leiden, Netherlands; and ³ Charles River Laboratories, Saffron Walden, United Kingdom.
#3537	Poster Board Number J690 Accelerating Immunotherapy Development with Bioinformatics-Driven Target Safety Evaluation. K. Jankovic ¹ , T. Krsmanovic ¹ , P. Stojakovic ¹ , A. Surla ¹ , D. Dragovic ¹ , G. Apic ¹ , and R. B. Russell ² . ¹ Metisox, Cambridge, United Kingdom; and ² Heidelberg University, Heidelberg, Germany.
#3538	Poster Board Number J691 <i>In vitro</i> assessment of potential hematotoxicity of ADC drugs. Q. Hu, S. Zhang, X. Du, P. Gao, and F. He. Pharmaron Beijing Co., Ltd., Beijing, China. Sponsor: S. Luo

Monday, March 23, 1:45 PM to 4:15 PM, Exhibit Hall B, Convention Center

PS **Poster Session: ADME/Toxicokinetics I**

Chair(s): Mahua Choudhury, Texas A&M University; and Sven Korte, Virscio.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 1:45 PM–4:15 PM

Abstract #

- #3539 **Poster Board Number** **K692**
Everolimus Toxicology: Tissue Concentration Effects. *W. Chang, N. Chang, T. Hoque, A. Park, and C. Lee.* Sapu Nano, San Diego, CA.
- #3540 **Poster Board Number** **K693**
Alterations of Xenobiotic ADME in a Rat Model of Heat Strain. *P. A. Sample, V. Pirro, V. Samala, D. Farrera, and N. Cherrington.* University of Arizona, Tucson, AZ.
- #3541 **Poster Board Number** **K694**
MASH Impairs Renal Anion Transporter Function and Alters Cefazolin Disposition. *M. M. Maloney, D. O. Farrera, L. J. Martinez-Guerrero, S. Marie, M. M. Alaaldin, P. Lindberg, K. Frost, P. A. Sample, C. S. LaMadrid, P. Lenzen-Hammerel, L. R. Radtke, S. H. Wright, and N. J. Cherrington.* University of Arizona, Tucson, AZ.
- #3542 **Withdrawn.**
- #3543 **Poster Board Number** **K696**
Heat Strain and Its Effects on UGTs. *V. B. Samala, P. Sample, V. Pirro, D. Farrera, and N. Cherrington.* The University of Arizona, Tucson, AZ.
- #3544 **Poster Board Number** **K697**
A comparative biodistribution and toxicity study of single and multi-component nanomaterials: NMs: TiO₂, SiC, and SiC@TiO₂. *W. Zhang¹, D. G. Muhammad¹, M. Blosi², R. Cai¹, C. Chen¹, and F. R. Cassee³.* ¹CAS Key Laboratory for Biomedical Effects of Nanomaterials and Nanosafety & CAS Center for Excellence in Nanoscience, National Center for Nanoscience and Technology, Beijing, China; ²Institute of Science, Technology and Sustainability for Ceramics, National Research Council of Italy, Faenza, Italy; and ³National Institute for Public Health and the Environment Netherlands, Bilthoven, Netherlands.
- #3545 **Poster Board Number** **K698**
Development of a long-term 3D spheroid mouse hepatocyte culture model for use in drug-induced liver injury (DILI) applications. *M. Nautiyal¹, M. Cook¹, K. Grady², and A. Sharma¹.* ¹Lonza Durham, Morrisville, NC; and ²Lonza Walkersville Inc., Walkersville, MD. Sponsor: *K. Dunnick*
- #3546 **Poster Board Number** **K699**
Enhancing metabolic stability of beagle dog primary hepatocytes via culture optimization. *B. Huang, M. Qu, and X. Li.* Milecell Biotechnology Inc., Shanghai, China. Sponsor: *S. Xiao*

- #3547 **Poster Board Number K700**
Understanding Mechanisms of PFAS Absorption, Distribution, and Elimination Using a Physiologically Based Toxicokinetic Model. F. C. Fischer¹, C. Thackray², N. Ferguson¹, C. Chicoine¹, O. Skende¹, Z. Hu², Y. Zhu², A. Slitt¹, and E. Sunderland^{2,3}. ¹University of Rhode Island, Kingston, RI; ²Harvard John A. Paulson School of Engineering and Applied Sciences, Cambridge, MA; and ³Department of Earth and Planetary Sciences, Harvard University, Cambridge, MA.
- #3548 **Poster Board Number K701**
Advancing Antibody-Drug Conjugate Discovery Through Mechanistic AI and Translational Toxicology: An Integrated Framework for Safety, Efficacy, and PK Optimization. D. Thomas¹, P. MacLaughlin², T. Williams², and L. Hollister². ¹Elsevier, Inc., San Diego, CA; and ²Elsevier, Inc., Philadelphia, PA. Sponsor: D. Thomas, International Society for the Study of Xenobiotics
- #3549 **Poster Board Number K702**
Integrating Physiologically Based Pharmacokinetic (PBPK) Modeling with Intra-Arterial Drug Delivery (I-ADD) for Brain Tumor Therapy. X. Wang, A. Canchola, H. Nandula, M. Kinra, K. R. Pequeno, H. Liu, E. Zagha, and W. Chou. University of California, Riverside, Riverside, CA.
- #3550 **Poster Board Number K703**
Transgenerational Implications of Age-Dependent Half Life for Dioxins in Mothers and Breastfed Children. B. D. Kerger¹, and A. E. Loccisano². ¹Exponent Inc, Tampa, FL; and ²Exponent Inc, Alexandria, VA.
- #3551 **Poster Board Number K704**
Development of gestational PBK modeling to support dose selection for the developmental neurotoxicity *in vitro* battery testing. Y. Wu, B. Jackson, A. Hofstra, and A. Karmaus. Syngenta, Greensboro, NC.
- #3552 **Poster Board Number K705**
Sex Differences in the Pharmacokinetics of Bupivacaine May Influence Toxicological Outcomes. A. Schauder, O. Hifi, D. Castel, G. Doron, A. Reichstein, S. Abu Zer, D. Kovalchuk, and S. Meilin. Md Biosciences Innovalora, Rehovot, Israel. Sponsor: R. Tanguay
- #3553 **Poster Board Number K706**
Toxicity and biotransformation of trans-1,2-difluoroethene (R-1132-(E)). R. H. Dekant¹, W. Dekant¹, Z. Guo², T. Nakaue², S. Tokuno², A. Mally¹, and C. Burger¹. ¹University of Wuerzburg, Wuerzburg, Germany; and ²Daikin Industries, Ltd., Osaka, Japan.
- #3554 **Poster Board Number K707**
Bioactivation of alkylfurans to reactive α,β -unsaturated dicarbonyls: Evidence from *in vitro* and *in vivo* studies. R. H. Dekant, J. Buchholz, L. Willi, L. Geisenfelder, C. Burger, and A. Mally. University of Wuerzburg, Wuerzburg, Germany.
- #3555 **Poster Board Number K708**
Machine Learning-Enabled Reconstruction of Complete Nanoparticle Biodistribution Profiles in Tumor-Bearing Mice from Incomplete Experimental Data. X. Chen, Q. Chen, and Z. Lin. University of Florida, Gainesville, FL.
- #3556 **Poster Board Number K709**
Major *in vitro* Phase I and Phase II Metabolites of Cannabichromene. A. Ward, R. McCullough, and U. Christians. University of Colorado Anschutz Medical Campus, Aurora, CO.
- #3557 **Poster Board Number K710**
Mechanistic Insights into Liposomal Doxorubicin Distribution in Mice through Physiologically Based Pharmacokinetic Modeling. C. Chen, and Z. Lin. University of Florida, Gainesville, FL.

- #3558 **Poster Board Number K711**
Safety and Pharmacokinetic Evaluation of a Platelet inspired Hemostatic Nanotechnology in Sprague Dawley Rats and Beagle Dogs. E. Gahagan, U. Sekhon, B. Traylor, K. Aldridge, E. Quill, M. Ahmed, C. Pawlowski, and M. Bruckman. Haima Therapeutics, Cleveland, OH. Sponsor: *D. Hobson*
- #3559 **Poster Board Number K712**
A Regulatory Aligned Dual-Endpoint Human Hepatocyte Platform for Mechanistic and Quantitative CYP450 Induction Assessment and Drug-Drug Interaction Risk Prediction. R. S. Sharma, M. Gibson, and A. Augello. Concept Life Sciences, Dundee, United Kingdom. Sponsor: R. Sharma, EUROTOX
- #3560 **Poster Board Number K713**
Protecting Predators: Developing a Non-Lethal Framework for Toxicological Impacts of Mercury and PFAS in Sharks. P. C. Powell¹, M. Walker¹, G. Aniolek¹, B. Frazier², S. Kim³, and K. D. Rock¹. ¹Clemson University, Clemson, SC; ²South Carolina Department of Natural Resources, Charleston, SC; and ³University of California Merced, Merced, CA.
- #3561 **Poster Board Number K714**
Streamlining tissue toxicokinetic analysis in dose range finding toxicology studies for small molecules. S. Mukherjee, V. Siramshetty, M. Hayes, S. Ubhayakar, X. Zhang, E. Choo, B. Dean, M. Durk, L. Salphati, Y. Zhong, and S. Kakiuchi-Kiyota. Genentech, South San Francisco, CA.
- #3562 **Poster Board Number K715**
Route-Specific Variation of Systemic Bioavailability of Chemical Emissions. J. F. Wambaugh¹, K. K. Isaacs¹, N. Charest¹, C. Choo², H. Clewell³, M. Linakis⁴, S. Sharma², G. Sinclair¹, C. Weitekamp¹, C. Wright², Q. Zhang², K. Paul Friedman¹, and M. Wilson². ¹ULRI Chemical Insights, Research Triangle Park, NC; ²ULRI Chemical Insights, Marietta, GA; ³Ramboll, Durham, NC; and ⁴Ramboll, Salt Lake City, UT.
- #3563 **Poster Board Number K716**
A Quantitative Synthesis of the Drivers and Magnitudes of Maternal-Child PFAS Transfer. Y. Zhu¹, C. Thackray¹, Z. Hu¹, J. M. Braun², E. M. Sunderland¹, and F. C. Fischer^{1,3}. ¹Harvard University, Cambridge, MA; ²Brown University, Providence, RI; and ³University of Rhode Island, Kingston, RI.
- #3564 **Poster Board Number K717**
A rapid dosimetry model to investigate long-term spaceflight effects on drug disposition. S. U. Hirway^{1,2}, D. W. Cowan^{1,2}, T. Jaworek^{1,2}, T. LaLonde^{3,2}, L. M. Sweeney^{1,2}, T. R. Sterner^{3,2}, R. A. Clewell^{4,2}, and J. F. Reichard^{5,6}. ¹BlueHalo, an AV Company, Dayton, OH; ²Air Force Research Laboratory, Wright Patterson Air Force Base, OH; ³Henry M. Jackson Foundation for the Advancement of Military Medicine, Inc., Wright Patterson Air Force Base, OH; ⁴Eagle Integrated Services, Inc., Wright Patterson Air Force Base, OH; ⁵NASA Johnson Space Center, Houston, TX; and ⁶University of Cincinnati, Cincinnati, OH.

Monday, March 23, 9:15 AM to 11:45 AM, Exhibit Hall B, Convention Center

PS **Poster Session: Neurodegeneration and Neurodegenerative Diseases I**

Chair(s): Fatema Currim, Purdue University.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 9:15 AM–11:45 AM

Abstract #

- #3565 **Poster Board Number** K718
Towards a defined approach to assess pesticides for their potential to cause parkinsonian neurodegeneration. T. Tal¹, J. Nyffeler¹, S. Schildknecht², B. Viviani³, T. Burgdorf⁴, R. Owen¹, A. E. Krishnakumar¹, M. Mohammadi¹, Q. Fu¹, I. Mangas⁵, A. Castoldi⁵, and A. Terron⁵.
¹Helmholtz Centre for Environmental Research - UFZ, Leipzig, Germany; ²Hochschule Albstadt-Sigmaringen, Sigmaringen, Germany; ³Università degli Studi di Milano, Milano, Italy; ⁴German Federal Institute for Risk Assessment (BfR), Berlin, Germany; and ⁵European Food Safety Authority, Parma, Italy.
- #3566 **Poster Board Number** K719
Prolonged Low-Dose Paraquat Inhalation Model in Mice Reveals Sex Specific Dopaminergic Neurodegeneration and Behavioral Deficits. P. J. Reina-Gonzalez, A. Anchan, A. Abu-Salah, D. Chalupa, M. Ay, R. Strazdins, S. Sarkar, and D. A. Cory-Slechta. University of Rochester School of Medicine and Dentistry, Rochester, NY.
- #3567 **Poster Board Number** K720
Tiny messengers, big impact: EV-miRNAs induce apoptotic signaling pathways in rotenone-induced Parkinson's Disease model. F. M. Currim, J. M. Brown-Leung, and J. R. Cannon. Purdue University, West Lafayette, IN.
- #3568 **Poster Board Number** K721
Impact of neuromelanin formation on modeling Parkinson's Disease in rats and its implications in Parkinson's disease neurobiology. M. T. Corson, F. M. Currim, J. M. Brown-Leung, and J. R. Cannon. Purdue University, West Lafayette, IN.
- #3569 **Poster Board Number** K722
Caffeic Acid Mitigates α -Synuclein Neurotoxicity by Suppressing Fyn Kinase Signaling and α Syn Aggregation. A. George, C. Janarthnam, P. Padhi, J. Thomas, H. Jin, V. Anantharam, G. Phillips, A. Kanthasamy, and A. Kanthasamy. University of Georgia, Athens, GA.
- #3570 **Poster Board Number** K723
A Trichloroethylene Metabolite Drives Microglial Aging and Inflammation: Implications for Parkinson's Disease. A. Shah, A. Anchan, A. Abu-Salah, R. Strazdins, P. Reina Gonzalez, M. Ay, and S. Sarkar. University of Rochester Medical Center, Rochester, NY.
- #3571 **Poster Board Number** K724
Whole-Brain Mapping Reveals a Novel Neurogenic Role of Prokineticin-2 Signaling in theSVZ-RMS-OB During Parkinsonian Neurotoxic Stress. G. Clabaugh, H. Jin, V. Anantharam, A. Kanthasamy, and A. G. Kanthasamy. University of Georgia, Athens, GA.
- #3572 **Poster Board Number** K725
Molecular Mechanisms of Nuclear Pore Complex Impairment in Environmental Neurotoxicity Models: Implications for Pathogenesis of Parkinson's Disease. Y. Chang¹, Z. Riaz², D. Miller¹, G. Zenitsky¹, H. Jin¹, V. Anantharam¹, A. Kanthasamy¹, and A. G. Kanthasamy¹.
¹University of Georgia, Athens, GA; and ²Emory University, Atlanta, GA.

- #3573 **Poster Board Number K726**
CeMbio Gut Microbiota Influences the Neuroprotective Effects of Tea Catechins in a Transgenic *C. elegans* Parkinson's Disease Model. A. Rehman, J. Wang, and L. Tang. University of Georgia, Athens, GA.
- #3574 **Poster Board Number K727**
Trichloroethylene metabolites in Parkinson's Disease-related toxicity in *C. elegans* and mice. J. Dicent¹, M. L. Bucher¹, C. V. Duarte-Hospital¹, N. M. Ilieva², B. R. De Miranda², R. R. Singh¹, and G. W. Miller¹. ¹Columbia University, New York, NY; and ²University of Alabama at Birmingham, Birmingham, AL.
- #3575 **Poster Board Number K728**
Inhibition of Mitochondrial Complex III Causes Dopaminergic Neurodegeneration by Redox Stress in *Caenorhabditis elegans*. J. Huayta, and J. N. Meyer. Duke University, Durham, NC.
- #3576 **Poster Board Number K729**
Synaptic and Neurotransmitter Alterations in Canine Cognitive Dysfunction: A Translational Model for Alzheimer's Disease. P. Shirley^{1,2}, A. Alsulami^{1,2}, K. Kawai-Puaa^{1,2}, S. Boland^{1,2}, A. Lessard¹, K. Crozier¹, S. Mcgrath^{2,3}, and J. A. Moreno^{1,2}. ¹Department of Environmental and Radiological Health Services, Fort Collins, CO; ²Brain Research Center, Fort Collins, CO; and ³Department of Clinical Sciences, Fort Collins, CO.
- #3577 **Poster Board Number K730**
Drug Repurposing of Rapamycin Mitigates Alzheimer's Disease Associated Proteotoxicity in *Caenorhabditis elegans*. S. Alkhudaydi, and J. Moreno. Colorado State University, Fort Collins, CO.
- #3578 **Poster Board Number K731**
Effects of prophylactic tirzepatide treatment in a mouse model of Alzheimer's disease. C. Shillito, S. Ba, M. Lang, A. Stevenson, and D. L. Graham. Florida State University College of Medicine, Tallahassee, FL.
- #3579 **Poster Board Number K732**
Leveraging Telmisartan to Assess TGFβ's Role in Mediating Traffic Related Air Pollution Effects on Alzheimer's Relevant Neuropathology. N. Nasim, A. Bhusal, A. Valenzuela, K. J. Bein, A. Wexler, and P. J. Lein. UC Davis, Davis, CA.
- #3580 **Poster Board Number K733**
Neuroinflammation drives CNS metal accumulation: a new perspective on metals, inflammation, and neurodegeneration. A. T. Kramer¹, K. A. Shapiro¹, and F. E. Harrison^{2,1}. ¹Vanderbilt University, Nashville, TN; and ²Vanderbilt University Medical Center, Nashville, TN.
- #3581 **Poster Board Number K734**
Cholinergic transmission dysregulation and neurodegeneration induced by thyroid signaling disruption following butylparaben single and repeated treatment. P. Moyano¹, A. Flores¹, J. Sanjuan¹, J. C. Plaza¹, L. Guerra-Menendez², L. Abascal¹, O. Mateo¹, and J. Del Pino¹. ¹Complutense University of Madrid, Madrid, Spain; and ²San Pablo CEU University, Madrid, Spain.
- #3582 **Poster Board Number K735**
Comparative Neurotoxic Effects of PFOA and GenX in hiPSC-Derived Cortical Neurons. H. Zhao, J. Xie, S. Wu, X. Zhao, S. Yu, J. L. Freeman, and C. Yuan. Purdue University, West Lafayette, IN.
- #3583 **Poster Board Number K736**
Assessing Lead Levels in Human Bone with Portable XRF and Benchtop XRF Technology to Explore Links to Cognitive Performance and Neuropathology. G. A. Kowis, and L. H. Nie. Purdue University, West Lafayette, IN. Sponsor: J. Shannahan

- #3584 **Poster Board Number** K737
Investigating the effect of Bisphenol A-induced neurotoxicity in a striatal cell model of Huntington's disease. W. F. Muliawan, M. Moon, E. Astafiev-Holmes, and G. F. Kwakye. Oberlin College, Oberlin, OH.
- #3585 **Poster Board Number** K738
Investigating cellular mechanisms of prion disease in a primary cervid fibroblast model. C. F. Dobkins¹, K. Popichak¹, L. Parrie², P. Smith², J. Malmberg², and J. A. Moreno¹. ¹Colorado State University, Fort Collins, CO; and ²National Wildlife Research Center, USDA, Fort Collins, CO.
- #3586 **Poster Board Number** K739
Mechanistic profiling of new potential Parkinsonian toxicants Identified through qHigh-Throughput Screening of MT1G expression in a model of differentiated LUHMES cells. M. D. Garcia-Aguilar, Z. Tong, S. Sakamuru, X. Menghang, R. Huang, and D. Gerhold. National Institutes of Health, Rockville, MD.

Monday, March 23, 1:45 PM to 4:15 PM, Exhibit Hall B, Convention Center

PS Poster Session: Neurotoxicity: Pesticides

Chair(s): Vivek Lawana, NAMSA.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 1:45 PM–4:15 PM

Abstract #

- #3587 **Poster Board Number** K740
Evaluation of neurotoxicity of 21 organophosphorus pesticide binary mixtures using rapid behavioral screening in the planarian *Dugesia japonica*. D. Ireland¹, R. Wang¹, S. G. Fuselier¹, C. Rabaler¹, R. T. Somach¹, R. J. Richardson², and E. S. Collins¹. ¹Swarthmore College, Swarthmore, PA; and ²University of Michigan, Ann Arbor, MI.
- #3588 **Poster Board Number** K741
Acute organophosphate intoxication activates the TGFβ signaling pathway. B. Davis, Y. Tsai, T. Teodoro, C. Unkel, D. Bruun, M. Muñoz, A. Gelli, and P. Lein. University of California, Davis, Davis, CA.
- #3589 **Poster Board Number** K742
Single-nuclei transcriptomics reveal significant glial cell expansion and selective neurotoxicity during the epileptogenic period following organophosphate-induced status epilepticus. M. J. Armstrong, A. Izadi, M. A. Muñoz, D. A. Bruun, G. G. Gurkoff, and P. J. Lein. University of California, Davis, Davis, CA.
- #3590 **Poster Board Number** K743
Dose-Dependent Effects of Chlorpyrifos on Embryonic Cortical Neuronal Network. S. Schumann, R. Tanwar, K. Namburi, and J. Cannon. Purdue University, West Lafayette, IN.
- #3591 **Poster Board Number** K744
Substance P Mediates Chlorpyrifos-Induced Airway Hyperreactivity While Neurokinin A and Calcitonin Gene-Related Product Mediate Chlorpyrifos-Induced Lung Tissue Stiffness. A. C. Grodzki, E. Schelegle, and P. J. Lein. University of California Davis, Davis, CA.
- #3592 **Poster Board Number** K745
Chlorpyrifos-induced motor deficits are exacerbated in *Pon1*(-/-) vs wild type. R. Tanwar, F. Currim, S. Schumann, K. Namburi, T. Syeda, S. Sammi, and J. Cannon. Purdue University, West Lafayette, IN.

- #3593 **Poster Board Number K746**
Epigenetic Histone Modifications and Synaptic Plasticity Alterations associated with Chronic Neurobehavioral Deficit Following Repeated Chlorpyrifos Exposure in Adult Rats. S. Kulkarni, Y. Paudel, A. Ribeiro-Davis, E. Hawkins, J. McClay, and L. Deshpande. Virginia Commonwealth University, Richmond, VA.
- #3594 **Poster Board Number K747**
Using rodent MRI to assess changes in brain morphology of adult C57BL/6 mice following prenatal chlorpyrifos exposure. D. Kendricks¹, L. Aksu¹, G. Johnson², K. Hornburg², J. Cook², D. Tokarz³, E. Singletary³, Z. Howe², R. Herbert¹, C. McPherson¹, R. Sills¹, and J. Cushman¹. ¹National Institute of Environmental Health Science, Research Triangle Park, NC; ²Duke University, Durham, NC; and ³Experimental Pathology Laboratories, Morrisville, NC.
- #3595 **Poster Board Number K748**
APOE Genotype and Sex Modify the Effects of Organochlorine Pesticide DDT in Humanized APOE Mice. A. J. Barahona¹, I. Mhatre-Winters¹, J. J. Zhan², A. Eid³, A. Eid³, R. P. Hart⁴, V. Tran², Y. Han¹, Y. Go², D. P. Jones², and J. R. Richardson¹. ¹University of Georgia, Athens, GA; ²Emory University, Atlanta, GA; ³Florida International University, Miami, FL; and ⁴Rutgers University, Piscataway, NJ.
- #3596 **Poster Board Number K749**
DDT Alters Amyloid β Oligomerization and Synaptic Density in Humanized Amyloid β Mouse Model. A. N. Harriman¹, A. J. Barahona¹, F. M. Sammoura², I. Mhatre-Winters¹, Y. Han¹, and J. R. Richardson¹. ¹Isakson Center for Neurological Disease Research, University of Georgia, Athens, GA; and ²Florida International University, Miami, FL.
- #3597 **Poster Board Number K750**
Association of Prenatal Pesticide Exposure with Plasma A β -42/40 and Cognitive Function in Midlife is Modified by APOE Genotype: Evidence from the CHDS cohort. I. Mhatre-Winters¹, P. M. Cirillo², Y. Han¹, N. Krigbaum², P. Factor-Litvak³, B. G. Link⁴, Y. Go⁵, D. P. Jones⁵, B. Cohn², and J. R. Richardson¹. ¹Isakson Center for Neurological Disease Research, University of Georgia, Athens, GA; ²Child Health and Development Studies, Public Health Institute, Oakland, CA; ³Columbia University Medical Center, New York, NY; ⁴University of California, Riverside, CA; and ⁵Department of Medicine, Emory University, Atlanta, GA.
- #3598 **Poster Board Number K751**
Rotenone induced Parkinsonian neurotoxicity in fish alters central catecholamine metabolism in the brain. M. Badruzzaman¹, T. Chakraborty², and A. H. Shanto³. ¹Gazipur Agricultural University, Gazipur, Bangladesh; ²Kyushu University, Fukuoka, Japan; and ³Sylhet Agricultural University, Sylhet, Bangladesh.
- #3599 **Poster Board Number K752**
STING ablation attenuates rotenone-induced astrocytic activation and sex-dependent dopaminergic, motor deficits. O. A. Yanouri, A. J. Schuller, A. M. Bibb, A. M. Briggs, M. R. Hager, N. E. Yates, and R. B. Tjalkens. Colorado State University, Fort Collins, CO.
- #3600 **Poster Board Number K753**
APOE4 Genotype Modifies Paraquat Effects on α -Synuclein Levels and Ventricular Volume in Aged Humanized Mouse Models. J. R. Boos, C. Kim, I. Mhatre-Winters, Y. Han, A. J. Barahona, and J. R. Richardson. University of Georgia, Athens, GA.
- #3601 **Poster Board Number K754**
Humanized APOE4 genotype exacerbates paraquat-induced tau pathology and NLRP3 inflammasome activation. C. Kim, Y. Han, J. Boos, I. Mhatre-Winters, and J. Richardson. Center for Neurological Disease Research, Department of Physiology and Pharmacology, College of Veterinary Medicine, University of Georgia, Athens, GA.

#3602	Poster Board Number K755 Paraquat Exposure Increases Alpha-Synuclein and Phosphorylated Tau Levels in Rat Dopaminergic Neuron Cells. S. Bhatia, C. Kim, J. R. Boos, and J. R. Richardson. University of Georgia, Athens, GA.
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Monday, March 23, 1:45 PM to 4:15 PM, Exhibit Hall B, Convention Center

PS Poster Session: Developmental Basis of Adult Disease

Chair(s): Melissa Suter, Baylor College of Medicine.

Displayed: 9:00 AM–4:30 PM | Author Attended: 1:45 PM–4:15 PM

Abstract

#3603	Poster Board Number K770 Developmental PFOS exposure increases pancreatic β-cell sensitivity to secondary ROS-driven stress in zebrafish (<i>Danio rerio</i>) embryos. K. Wong, M. Graham, and A. Timme-Laragy. University of Massachusetts Amherst, Amherst, MA.
#3604	Poster Board Number K771 Individual phthalate or phthalate mixture alters metabolic health and microbiome via Sirtuin regulation. S. Venkategowda, S. Meruvu, N. Shree, A. U. Ufondu, A. Jayaraman, and M. Choudhury. Texas A&M, College Station, TX.
#3605	Poster Board Number K772 Regulatory Effects of ZCE on 3T3-L1 Adipocytes differentiation and High-Fat Diet induced Obesity in Mice. S. Heo ^{1,2} , H. Lee ^{1,2} , S. Cho ³ , D. Choi ² , and C. Choi ^{1,2,3} . ¹ Department of Integrative Biological Sciences & BK21 FOUR Educational Research Group for Age-Associated Disorder Control Technology, Chosun University, Gwangju, Korea, Republic of; ² Institute of Well-Aging Medicare & Chosun University G-LAMP Project Group, Chosun University, Gwangju, Korea, Republic of; and ³ Department of Biomedical Science, Chosun University, Gwangju, Korea, Republic of.
#3606	Poster Board Number K773 Perfluorooctanesulfonic acid (PFOS) and glucose exposures alter pancreatic islet vascularization during development in zebrafish (<i>Danio rerio</i>). A. K. Sobo ¹ , M. C. Tompach ² , and A. R. Timme-Laragy ¹ . ¹ University of Massachusetts Amherst, Amherst, MA; and ² Eli Lilly and Company, Boston, MA.
#3607	Poster Board Number K774 Concurrent Iron Supplementation Prevents Cardiomegaly and Metabolic Dysfunction-Associated Steatotic Liver Disease in Mice with Perinatal Cadmium Exposure. M. Cowley, R. Lichtler, N. Smith, and C. Hoyo. North Carolina State University, Raleigh, NC.
#3608	Poster Board Number K775 Impact of Pancreatic Sweet Receptors on Beta Cell Function and Pathobiology throughout Development. K. M. Polemi ¹ , C. S. Cho ² , A. J. Torres-Berrios ¹ , L. K. Harrison ² , F. Rubens ² , and K. E. Sant ¹ . ¹ Michigan State University, East Lansing, MI; and ² San Diego State University, San Diego, CA.
#3609	Poster Board Number K776 Developmental exposure to polychlorinated biphenyls (PCBs) impacts expression of potassium ion channels and steroid hormone receptors in the bladder and brain of adult mice. M. Ridlon, C. L. Kennedy, A. Lentine, T. Jordan, J. Tlapa, K. Wang, L. Felth Tanaka, and K. K. Stietz. University of Wisconsin - Madison, Madison, WI.

- #3610 **Poster Board Number** K777
Persistent impacts of parental BaP-exposure on adult male behavior and brain transcriptome in Japanese medaka (*Oryzias latipes*). N. E. Cook¹, Y. Lu², and F. Seemann¹.
¹Texas A&M University-Corpus Christi, Corpus Christi, TX; and ²Texas State University, San Marcos, TX.
- #3611 **Poster Board Number** K778
Maternal Metabolic Health Alters Infant Adipocyte Differentiation and Inflammatory Signaling via Human Milk Lipids. C. Thomas, M. Rabotnick, and B. Gregg. University of Michigan, Ann Arbor, MI.

Monday, March 23, 1:45 PM to 4:15 PM, Exhibit Hall B, Convention Center

PS Poster Session: POPs

Chair(s): Johnson Oladele, Texas A&M University.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 1:45 PM–4:15 PM

Abstract #

- #3612 **Poster Board Number** K780
Green-engineered montmorillonite clays for the adsorption and detoxification of polychlorinated biphenyls. J. O. Oladele, X. Xenophontos, P. Tamamis, S. H. Safe, and T. D. Phillips. Texas A&M University, College Station, TX.
- #3613 **Poster Board Number** K781
Integrating Behavioral, Morphological, and Transcriptomic Endpoints to Define PCB Developmental Toxicity in Zebrafish. N. M. Breese¹, L. Truong², R. L. Tanguay², and H. Lehmler¹.
¹University of Iowa, Coralville, IA; and ²Oregon State University, Corvallis, OR.
- #3614 **Poster Board Number** K782
Acute PCB126 exposure alters cell type specific transcriptional profiles in the adult zebrafish brain. N. Aluru, and C. S. Murray. Woods Hole Oceanographic Institution, Woods Hole, MA.
- #3615 **Poster Board Number** K783
The bladder as a target for PCB toxicity: Evidence from PCB levels, phase I metabolite levels, and cytochrome P450 expression following developmental exposure to a human-relevant PCB mixture in mice. H. Wang¹, E. Schumacher², A. Spiegelhoff², C. L. Kennedy², M. M. Ridlon², R. F. Marek³, K. P. Keil Stietz², and H. J. Lehmler¹. ¹Department of Occupational and Environmental Health, University of Iowa, Iowa City, IA; ²Department of Comparative Biosciences, University of Wisconsin-Madison, Madison, WI; and ³Department of Civil and Environmental Engineering, University of Iowa, Iowa City, IA.
- #3616 **Poster Board Number** K784
Sex-dependent Hepatotoxicity of an Environmentally Relevant Dioxin Mixture in a Humanized AHR Mouse Model. O. E. Bolatimi¹, Y. Hua¹, S. Singh², P. Brizendine-Ames¹, A. Ekuban¹, G. J. Phillips³, F. A. Ekuban¹, W. H. Watson¹, and B. Wahlang¹. ¹University of Louisville School of Medicine, Louisville, KY; ²Rocky Vista University College of Osteopathic Medicine, Ivins, UT; and ³University of Louisville College of Arts and Sciences, Louisville, KY.

- #3617 **Poster Board Number** **K785**
Sex- and Diet-Specific Disruption of the Adipose-Liver Axis with Subchronic Exposure to a Dioxin Mixture. K. D. Stewart¹, O. E. Bolatimi², G. J. Phillips¹, Y. Hua², and B. Wahlang². ¹University of Louisville College of Arts and Sciences, Louisville, KY; and ²University of Louisville School of Medicine, Louisville, KY.
- #3618 **Poster Board Number** **K786**
Exposure to polychlorinated biphenyls (PCBs) alters endothelial-pericyte crosstalk at the blood brain barrier. K. Kumar¹, X. Li², H. Lehmler², and M. Toborek¹. ¹Department of Biochemistry and Molecular Biology, University of Miami Miller School of Medicine, Miami, FL; and ²Department of Occupational and Environmental Health, University of Iowa, Iowa City, IA.
- #3619 **Poster Board Number** **K787**
Developmental risks of PBDE exposure through altered miRNA signaling in human placenta and breastmilk. R. Khan¹, M. Kong², A. Salamova², X. Lin³, N. Hanna⁴, and J. T. Zelikoff¹. ¹New York University, New York, NY; ²Emory University, Atlanta, GA; ³NYU Langone Hospital Long Island, Mineola, NY; and ⁴NYU Langone Hospital Long Island, New York, NY.

Monday, March 23, 1:45 PM to 4:15 PM, Exhibit Hall B, Convention Center

PS Poster Session: Mixtures

Chair(s): Xiaojia He, Chemical Insights Research Institute; and Genoa Warner, New Jersey Institute of Technology.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 1:45 PM–4:15 PM

Abstract #

- #3620 **Poster Board Number** **M788**
***In vitro* mixtures toxicity testing to address wildfire smoke exposures and individual chemical components contributing to human health risk.** S. L. Miller¹, J. R. Chappel¹, E. Hickman¹, Y. Kim², C. Rider³, D. M. Reif³, S. Auerbach³, I. Jaspers¹, M. E. Rebuli¹, and J. E. Rager¹. ¹UNC Chapel Hill, Chapel Hill, NC; ²US EPA, Research Triangle Park, NC; and ³NIEHS, Research Triangle Park, NC.
- #3621 **Poster Board Number** **M789**
Developmental Toxicity of Metal Mixture Exposures in Zebrafish Embryos. O. D. Ahmad, K. R. Siegel, and C. D. Kassotis. Wayne State University, Detroit, MI.
- #3622 **Poster Board Number** **M790**
From Pixels to Potency: Image-Based Modeling of Component Contributions to PFAS Mixture Effects. K. M. Eccles¹, E. Cho¹, and S. Baird². ¹Health Canada, Ottawa, ON, Canada; and ²Children's Hospital of Eastern Ontario Research Institute, Ottawa, ON, Canada.
- #3623 **Poster Board Number** **M791**
***In vitro* endocrine and adipogenic effects of oil and gas-associated metal mixtures: intersections with glucocorticoid signaling.** K. R. Siegel, and C. D. Kassotis. Wayne State University, Detroit, MI.
- #3624 **Poster Board Number** **M792**
Assessment of Bisphenol Mixture Toxicity Using Zebrafish Larvae and HepG2 Cells. R. Chen, B. Bauer, and H. Hintzsche. University of Bonn, Department of Food Safety, Bonn, Germany.

- #3625 **Poster Board Number** M793
Inhalation exposure risks from resin 3D printing used in dental fields. Q. Zhang¹, I. Sanchez², M. Maroun², B. Welmaker², C. Bell-Huff¹, and M. Wilson¹. ¹UL Research Institutes, Marietta, GA; and ²Nova Southeastern University, Davie, FL.
- #3626 **Poster Board Number** M794
Modeling Female Reproductive Toxicity of Endocrine Disruptor Mixtures: Insights from Targeted Chemicals. X. Jia¹, T. Zhan², S. Xiao², and H. Zhu¹. ¹Tulane University, New Orleans, LA; and ²Rutgers University, Piscataway, NJ.
- #3627 **Poster Board Number** M795
Mixtures at the intersection of toxicology and epidemiology: Single index models and Relative Potency Factors. T. F. Webster. Boston University School of Public Health, Boston, MA.
- #3628 **Poster Board Number** M796
Interpretable Dose-Response Modeling for Chemical Mixtures Using Symbolic Regression: A Case Study with Wildfire Smoke *In Vitro* Testing. J. R. Chappel, S. L. Miller, T. M. Weigand, and J. E. Rager. University of North Carolina at Chapel Hill, Chapel Hill, NC.
- #3629 **Poster Board Number** M797
Combined Arsenic and Uranium Exposure Drives Tissue-Specific Molecular Responses. J. Schilz, K. A. Torczynski, G. A. Picha, L. G. Hudson, E. J. Dashner-Titus, and S. Medina. University of New Mexico, Albuquerque, NM.
- #3630 **Poster Board Number** M798
Combined Effects of Metal Mixtures Toxicity in *C. elegans*. E. Lewis, S. Sierzenga, S. Pandiri, B. Lawrence, M. O'Banion, and J. Onukwufor. University of Rochester Medical Center, Rochester, NY.
- #3631 **Poster Board Number** M799
Strain-Dependent Effects of Trichloroethylene Exposure and Western Diet in Wild Type and Humanized PPAR α Mice. P. M. Brizendine-Ames, A. Ekuban, M. Cave, and W. Watson. University of Louisville, Louisville, KY.
- #3632 **Poster Board Number** M800
Liver Injury in the U.S. Population: The Combined Impact of PFAS and VOC Mixtures. N. E. Gentile¹, E. Costello², S. Li³, Y. Jung¹, J. A. Goodrich¹, Z. Li¹, S. E. Fenton⁴, D. V. Conti¹, S. P. Eckel¹, R. McConnell¹, M. Aung¹, and L. Chatzi¹. ¹University of Southern California, Los Angeles, CA; ²Brown University, Providence, RI; ³University of Hawai'i at Mānoa, Honolulu, HI; and ⁴North Carolina State University, Raleigh, NC.
- #3633 **Poster Board Number** M801
Increased levels of interindividual variation in dose reduces population risks from synergistic interactions. P. Price. Risk Sciences International, Cedar Rapids, IA.
- #3634 **Poster Board Number** M802
Western Diet and Environmental Chemical Exposures: A Transcriptomic Approach. Z. Zimmerman, S. Yuan, R. Harris, N. Price, J. Beier, and A. P. Sanders. University of Pittsburgh, Pittsburgh, PA.
- #3635 **Poster Board Number** M803
Mitochondria-enriched extracellular vesicles as mediators and biomarkers of endothelial stress induced by polycyclic aromatic hydrocarbon mixtures. C. Chauvin¹, J. Guillouzouic¹, V. Genet¹, E. Vidal², H. Amessird², A. Burel³, N. Soler³, F. Barathon¹, O. Sergeant¹, N. Podechard¹, C. Cloteau⁴, J. Froger^{5,6}, S. Le Lay^{5,6}, C. Elie-Caille², B. Brunel², W. Boireau², L. Sparfel¹, and É. Le Ferrec¹. ¹Univ Rennes, Irset INSERM UMR_S 1085, Rennes, France; ²Université Marie et Louis Pasteur, CNRS, Institut FEMTO-ST, Besançon, France; ³MRic Cell Imaging Platform, BIOSIT, Univ Rennes, Rennes, France; ⁴Nantes Université, Mshark, Biocore, Nantes, France; ⁵Nantes Université, CNRS, INSERM, Institut du Thorax, Nantes, France; and ⁶Université Angers, SFR ICAT, Angers, France. Sponsor: M. BURBANK

- #3636 **Poster Board Number** M804
Metal Mixtures and Parkinsonism: From Weighted Quantile Sum Regression to Exposure Risk Score-Guided Autoantibody Profiling. *F. C. Lewis*¹, *N. Goulett*¹, *S. Azmoun*¹, *D. Shoieb*², *R. Marquez*¹, *V. Sundar*¹, *M. Ali*¹, *L. Pitta*¹, *H. Krishnamurthy*³, *E. Colicino*⁴, *L. Lambertini*⁴, *S. Renzetti*⁵, *D. Placidi*², and *R. G. Lucchini*¹. ¹Florida International University, Miami, FL; ²Università degli Studi di Brescia, Province of Brescia, Italy; ³Vibrant Sciences LLC, Santa Clara, CA; ⁴Icahn School of Medicine at Mount Sinai, New York, NY; and ⁵Università degli Studi di Parma, Province of Parma, Italy.
- #3637 **Poster Board Number** M805
***In vitro* to *in vivo* Translation of Developmental and Adult Models to assess Neurotoxic Mechanisms of Metal Mixtures.** *F. C. Sillé*¹, *B. Karimi*¹, *N. Chandra*¹, *B. Kincaid*¹, *S. Pagadala*¹, *A. Bhobe*¹, *S. S. Sanchez*¹, *B. Yeung-Luk*¹, *E. Rivera*², *M. Kohr*¹, *B. Riess*¹, *K. Nachman*¹, *L. Smirnova*¹, *A. Graves*², and *S. Biswal*¹. ¹Department of Environmental Health and Engineering, Bloomberg School of Public Health, Johns Hopkins University, Baltimore, MD; and ²Department of Biomedical Engineering, Whiting School of Engineering, Johns Hopkins University, Baltimore, MD.
- #3638 **Poster Board Number** M806
Behavioral Effects and Bioaccumulation of Tire-Derived Compounds in Zebrafish: Unraveling the Chemical Drivers of Acute Sensorimotor Disruption. *D. Leuthold*, *B. Seiwert*, *D. Zahn*, *N. Schweiger*, *M. Zieseniß*, *R. Owen*, and *T. Tal*. Helmholtz Centre for Environmental Research - UFZ, Leipzig, Germany.

Monday, March 23, 1:45 PM to 4:15 PM, Exhibit Hall B, Convention Center

PS Poster Session: Natural Products

Chair(s): Nitin Verma, Chitkara University Himachal Pradesh.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 1:45 PM–4:15 PM

Abstract #

- #3639 **Poster Board Number** M810
Exploring Synergistic Toxicity Between Açai Extracts and Methotrexate in Human Breast and Vascular Cell Lines. *D. Thornton*¹, *K. Heck*¹, *M. Patrick*², *S. R. Pondugula*¹, *J. Shen*¹, and *A. I. Calderón*¹. ¹Auburn University, Auburn, AL; and ²Florida State University, Tallahassee, FL.
- #3640 **Poster Board Number** M811
The therapeutic effects of nobiletin treatment on hypertensive nephropathy via ferroptosis-associated axis. *S. Lin*¹, *H. Kuo*¹, *S. Liu*², and *C. Wu*¹. ¹China Medical University, Taichung, Taiwan; and ²National Taiwan University, Taipei, Taiwan.
- #3641 **Poster Board Number** M812
The study on the safety of cannabidiol isolated from *Cannabis sativa* cultivated in Korea. *J. Lee*¹, *M. Kwon*¹, *G. Kim*¹, *Y. Kwon*¹, *T. Kwak*², *J. Park*², *S. Nam*³, *K. Lim*⁴, and *B. Park*¹. ¹Kolmar Korea Co., Ltd, Seoul, Korea, Republic of; ²Gyeongbuk Technopark, Gyeongsan-si, Korea, Republic of; ³Biototoxtech Co., Ltd, Cheongju-si, Korea, Republic of; and ⁴Ewha Womans University, Seoul, Korea, Republic of.
- #3642 **Poster Board Number** M813
PIPERINE ATTENUATES CISPLATIN-INDUCED TOXICITIES IN RATS: *IN VIVO* STUDY. *K. M. Alharthy*. Prince Sattam Bin Abdulaziz University, Alkharj, Saudi Arabia.

- #3643 **Poster Board Number** M814
Safety findings for *Cordyceps militaris* fruiting body through USP Admission Evaluation process. A. L. Roe, J. Brooks, R. Ko, J. Barnes, I. Koturbash, and N. Akhtar. USP, Rockville, MD.
- #3644 **Poster Board Number** M815
Defining the typical composition of spearmint (*Mentha spicata*) aerial parts essential oil: A GC/MS and controlled vocabulary-based approach. D. T. Carter¹, J. T. Dawson¹, A. Poudel², P. Satyal², and C. Bascoul¹. ¹Product Safety, doTERRA, Pleasant Grove, UT; and ²Essential Oil Science, doTERRA, Pleasant Grove, UT. Sponsor: C. Mitchell
- #3645 **Poster Board Number** M816
Chemical Profile and *In Vitro* Evaluation of Hydroalcoholic Extracts from *Hyptis lantanifolia* and *Ageratina popayanensis* Obtained from Plants Grown in Colombia. C. Valdelamar-Caballero¹, J. Olivero-Verbe², P. Quintero-Rincón^{1,3}, and K. Caballero-Gallardo^{1,4}. ¹Functional Toxicology Group. School of Pharmaceutical Sciences, Zaragocilla Campus. University of Cartagena, Cartagena, Colombia; ²Environmental and Computational Chemistry Group. School of Pharmaceutical Sciences, Zaragocilla Campus. University of Cartagena, Cartagena, Colombia; ³Research Group Design and Formulation of Medicines, Cosmetics, and Related, Faculty of Pharmaceutical and Food Sciences, Universidad de Antioquia, Medellín, Colombia; and ⁴Environmental and Computational Chemistry Group. School of Pharmaceutical Sciences, Zaragocilla Campus. University of Cartagena., Cartagena, Colombia.
- #3646 **Poster Board Number** M817
An Investigation into the Antioxidant Properties of Bladderwrack Algae, *Fucus vesiculosus*, Extract. J. L. Newell-Caito¹, S. Kovacs¹, S. Caito², and T. Fasulo². ¹University of Maine, Orono, ME; and ²Husson University, Bangor, ME.
- #3647 **Poster Board Number** M818
Mechanisms of action of four major constituent cannabinoids in hemp extract. X. Gao, M. R. Yourick, K. Campasino, Y. Zhao, E. Sepehr, C. Vaught, R. L. Sprando, and J. J. Yourick. Division of Toxicology, Office of Chemistry and Toxicology, Human Foods Program, US FDA, Laurel, MD.
- #3648 **Poster Board Number** M819
Assessing Human Hepatotoxicity from Botanicals: A Multi-Tiered *In Silico* Screening Approach. C. Ji¹, Y. Liu², A. L. Roe³, M. Lawless⁴, J. Hsieh⁵, and M. Chen⁶. ¹Office of Innovation and Analytics, Agency for Toxic Substances and Disease Registry (ATSDR), Centers for Disease Control and Prevention (CDC), Atlanta, GA; ²Division of Toxicology, Office of Chemistry and Toxicology, Office of Laboratory Operations and Applied Science, Human Foods Program, U.S. Food and Drug Administration, Laurel, MD; ³The Procter & Gamble Co., Cincinnati, OH; ⁴Simulations Plus, Lancaster, CA; ⁵Biomolecular Screening Branch, Division of the National Toxicology Program, National Institute of Environmental Health Sciences, Research Triangle Park, NC; and ⁶Division of Bioinformatics and Biostatistics, National Center for Toxicological Research, U.S. Food and Drug Administration, Jefferson, AR.

Monday, March 23, 1:45 PM to 4:15 PM, Exhibit Hall B, Convention Center

PS Poster Session: Food Safety/Nutrition

Chair(s): Abdel-Razak Kadry, University of Maryland; and Maxwell Leung, Arizona State University.

Displayed: 9:00 AM–4:30 PM | Author Attended: 1:45 PM–4:15 PM

Abstract #

- #3649 **Poster Board Number** M825
A User-Friendly iPBPK Platform for Predicting Florfenicol and Florfenicol Amine Residues in Sheep and Goats. X. Wu^{1,2}, R. H. Mahbubul^{1,2}, L. A. Tell³, R. E. Baynes⁴, J. L. Davis⁵, F. P. Maunsell⁶, J. E. Riviere⁴, and Z. Lin^{1,2}. ¹Department of Environmental and Global Health, College of Public Health and Health Professions, University of Florida, Gainesville, FL; ²Center for Environmental and Human Toxicology, University of Florida, Gainesville, FL; ³Department of Medicine and Epidemiology, University of California-Davis, Davis, CA; ⁴Center for Chemical Toxicology Research and Pharmacokinetics, North Carolina State University, Raleigh, NC; ⁵Department of Biomedical Sciences and Pathobiology, Virginia-Maryland College of Veterinary Medicine, Blacksburg, VA; and ⁶Department of Large Animal Clinical Sciences, University of Florida, Gainesville, FL.
- #3650 **Poster Board Number** M826
Cannabinoid and Sensory Evaluation of Cannabidiol and Baby Leaf Hemp in Yuma, Arizona. H. Ha¹, M. C. Leung², and R. N. Masson³. ¹Arizona State University, Phoenix, AZ; ²Arizona State University, Glendale, AZ; and ³University of Arizona, Yuma, AZ.
- #3651 **Poster Board Number** M827
Safety Evaluation of a Sugar Replacement (Honey Truffle Sweet Protein) Derived from Nature. D. B. Mayfield¹, S. Potter², D. Zhao², A. Roberts³, R. Peterson², M. Lloyd⁴, T. Martin⁴, S. Papineni¹, and G. Tosi⁴. ¹Labcorp, Greenfield, IN; ²MycoTechnology, Inc., Aurora, CO; ³AR Toxicology Inc., Oakville, ON, Canada; and ⁴Labcorp, Harrogate, United Kingdom.
- #3652 **Poster Board Number** M828
Sensitive Detection of Emerging *Alternaria* Mycotoxins with Novel Aptamer- and Antibody-Based Strategies. S. Wu¹, Y. Hsieh², Y. Lin², and F. Yu². ¹Graduate Institute of Toxicology, National Taiwan University, Taichung, Taiwan; and ²Chung Shan Medical University, Taichung, Taiwan. Sponsor: S. Liu
- #3653 **Poster Board Number** M829
Approach for systematically assessing study reliability and relevance in evaluations of monosodium glutamate safety. W. D. Klaren¹, B. N. Rivera¹, A. M. Sheppard², K. Franke¹, and D. S. Wikoff¹. ¹ToxStrategies, LLC, Asheville, NC; and ²ToxStrategies, LLC, Cincinnati, OH.
- #3654 **Poster Board Number** M830
Cell-Type-Dependent Mechanisms of Patulin Toxicity: Insights from SH-SY5Y and Caco-2 Cell Models. C. Moyano-López¹, P. Llorens¹, J. Olivero-Verbe², C. Juan¹, and A. Juan-García¹. ¹University of Valencia, Burjassot, Spain; and ²University of Cartagena, Cartagena de Indias, Colombia.
- #3655 **Poster Board Number** M831
Multiorgan Toxicity of Microbiome-Derived Delta-Valerobetaine in Aged Mice Occurs Through Disruption of Lipid and Lipid-Soluble Vitamin Metabolism. H. Lee, G. Lim, Z. R. Jarrell, J. Jeon, C. Lee, V. Tran, M. L. Orr, Y. Go, and D. P. Jones. Emory University, Atlanta, GA.

- #3656 **Poster Board Number** M832
Dose optimization of tilmicosin against *P. multocida* in swine by physiologically-based pharmacokinetic - pharmacodynamic Model. L. Sun^{1,2}, K. Mi³, Y. Chen^{1,2}, and L. Huang^{1,2,4}.
¹Department of Veterinary Medicine Science, College of Veterinary Medicine, Huazhong Agricultural University, Wuhan, China; ²National Reference Laboratory of Veterinary Drug Residues (HZAU), Wuhan, China; ³Department of Environmental and Global Health, College of Public Health and Health Professions, University of Florida, Gainesville, FL; and ⁴MOA Key Laboratory for Detection of Veterinary Drug Residues, Wuhan, China.
- #3657 **Poster Board Number** M833
Knowledge, Attitudes, and Practices of Pre-Service Teachers Toward Food Additives. F. Z. Sheabar^{1,2}, N. Najami², and R. Hasbani². ¹Panaceas, Midlothian, VA; and ²The Academic College for Education-Haifa, Haifa, Israel.
- #3658 **Poster Board Number** M834
Risk Assessment of Mycotoxin Exposure Through Plant-Based Meat Alternatives from Spain and Portugal. P. Llorens¹, C. Juan¹, A. Juan-García¹, M. Leite^{2,3}, C. Moyano-López¹, K. Salinas⁴, J. Blesa¹, A. Pena⁵, and L. Silva⁵. ¹University of Valencia, Burjassot, Spain; ²National Institute for Agricultural and Veterinary Research, Porto, Portugal; ³REQUIMTE/LAQV, Porto, Portugal; ⁴SRG, Inc., North Syracuse, NY; and ⁵University of Coimbra, Coimbra, Portugal.
- #3659 **Poster Board Number** M835
ITALIAN POPULATION UPDATED RISK ASSESSMENT FOR ACRYLAMIDE AND MYCOTOXINS FROM MARKETING BISCUITS. A. Navarré^{1,2}, V. Zingales², H. Berrada², Y. Rodríguez-Carrasco², and L. Izzo¹. ¹Department of Pharmacy, University of Naples Federico II, Naples, Italy; and ²Toxicology Laboratory, Faculty of Pharmacy and Food Sciences, University of Valencia, Valencia, Spain.
Sponsor: A. Anadon
- #3660 **Poster Board Number** M836
***In silico* and *in vitro* approaches to risk assess tropane alkaloids as food contaminants.** A. De Carvalho E Silva¹, A. D. Kalian², D. McDonald³, S. He³, G. D. Loizou¹, K. McNally⁴, A. M. C. Iserte⁵, O. J. Osborne⁶, C. Potter⁶, J. K. Colbourne¹, and M. R. Viant¹. ¹Centre for Environmental Research and Justice (CERJ), University of Birmingham, Birmingham, United Kingdom; ²King's College London, London, United Kingdom; ³AIA Insights, Birmingham, United Kingdom; ⁴Predictive Technologies Division, Certara UK Ltd, Sheffield, United Kingdom; ⁵Health & Biomedicine Department, LEITAT, Barcelona, Spain; and ⁶UK Food Standards Agency, London, United Kingdom. Sponsor: A. De Carvalho E Silva, EUROTOX
- #3661 **Poster Board Number** M837
Apportionment of Food Safety Guidance Values: Practical Applications for Food Ingredient and Contaminant Exposures. C. Llewellyn¹, and S. Vandyousefi². ¹J.S. Held LLC, Alpharetta, GA; and ²J.S. Held LLC, Reston, VA.
- #3662 **Poster Board Number** M838
development of improved tlc and hplc-dad methods for identification and quantification of quillaia extract type 2. S. Kwon, S. Cho, and K. Lee. Korea University, Seoul, Korea, Republic of.
- #3663 **Poster Board Number** M839
Human Exposure to FD&C Red No. 3: Maximum Dietary Intake Assessment Using Latest NHANES Data and Toxicological Context. C. Hoedlmoser, K. Ngo, A. Markle, T. Osako, and L. A. Haighton. Intertek, Mississauga, ON, Canada.
- #3664 **Poster Board Number** M840
Development of Supplemental Intake Limits for Nutrients. R. G. Henderson¹, J. Hinerman², A. Franzen³, H. Nguyen⁴, and A. Wong⁴. ¹ToxStrategies LLC, Houston, TX; ²ToxStrategies LLC, Cincinnati, OH; ³ToxStrategies LLC, Monroe, LA; and ⁴Council for Responsible Nutrition, Washington, DC.

- #3665 **Poster Board Number** M841
Health Promoting Antioxidant activity of Rosemary Extract (*Salvia Rosmarinus*) in Food Preservatives. J. Rubio Villa. JS Held, Redmond, WA.
- #3666 **Poster Board Number** M842
Antioxidant, anti-obesity, and anti-aging effects of *Melicoccus bijugatus* seed extract in *Caenorhabditis elegans*. B. J. Arroyo-Salgado, L. Tejada-Benitez, and J. Durango-Villalba. Biomedical, Toxicological and Environmental Research Group BIOTOXAM – SEMILLERO SEMIDET, School of Medicine, Universidad de Cartagena, Cartagena, Colombia.
- #3667 **Poster Board Number** M843
Mutagenic Potential of Higenamine in Cultured V79 Cells. E. M. Veh, E. Fleischmann, P. Wenninger, and L. Lehmann. University of Würzburg, Institute of Pharmacy and Food Chemistry, Chair of Food Chemistry, Würzburg, Germany.
- #3668 **Poster Board Number** M844
A combined chemoproteomics and 3D molecular modeling approach identifies small GTPases as potential target proteins of the mycotoxin Ochratoxin A. J. Borchers¹, F. Perugino², A. Schlosser³, S. Lamer³, L. Pedroni², L. Dellafora², and A. Mally¹. ¹University of Würzburg, Department of Toxicology, Würzburg, Germany; ²University of Parma, Department of Food and Drug, Parma, Italy; and ³University of Würzburg, Rudolf Virchow Center, Würzburg, Germany.
- #3669 **Poster Board Number** M845
Complex *Alternaria* toxin mixtures: an underestimated risk for consumer safety? F. Call, F. Crudo, and D. Marko. University of Vienna, Vienna, Austria. Sponsor: W. Bisson
- #3670 **Poster Board Number** M846
Early Glycation Products Modulate Glucose Homeostasis and Gut Microbiome and Produce Sex-Specific Behavioral Changes in Murine Models of Type 2 Diabetes and Neurodevelopmental Disorders. F. Eldefrawy, D. Jiang, and T. L. Guo. University of Georgia, Athens, GA.
- #3671 **Poster Board Number** M847
Distinct production of advanced glycation endproducts by the microbiome of Crohn's disease patients and healthy controls. H. A. van der Hout¹, M. Kolovou¹, C. Driessen², D. M. Jonkers¹, J. Penders², F. van Schooten¹, D. T. Sijm¹, and M. F. Vrolijk¹. ¹Maastricht University, Maastricht, Netherlands; and ²Maastricht University Medical Center+, Maastricht, Netherlands. Sponsor: H. van der Hout, EUROTOX



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Tuesday, March 24, 9:15 AM to 11:45 AM, Exhibit Hall B, Convention Center

PS Poster Session: Liver: *In Vitro*

Chair(s): Rais Ahmad Ansari, Nova Southeastern University; and Clive Roper, Charles River Laboratories, United Kingdom.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 9:15 AM–11:45 AM

Abstract

- #3672 **Poster Board Number A100**
Species specific responses of human, rat and rabbit hepatocytes to the next-generation refrigerant R-1132(E). N. Mori¹, H. Sakaue¹, R. Takeda¹, A. Kuno¹, R. Kobayashi¹, Z. Guo², and Y. S. Kida¹. ¹National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, Japan; and ²Daikin Industries, Ltd., Osaka, Japan. Sponsor: *T. Fukuyama*
- #3673 **Poster Board Number A101**
Establishing a quantitative and advanced *in vitro* test system to evaluate chemical-induced liver fibrosis. T. Hagens¹, L. Winkelman¹, L. Bajard², S. Langouët³, E. Blanc⁴, L. Wik⁵, M. Kiamehr⁶, J. Beltman¹, M. Niemeijer¹, and B. v. Water¹. ¹Leiden Academic Centre for Drug Research, Leiden University, Leiden, Netherlands; ²Research Centre for Toxic Compounds in the Environment (RECETOX), Masaryk University, Brno, Czech Republic; ³Institut de Recherche en Santé, Environnement et Travail (IRSET), INSERM Rennes, Rennes cedex, France; ⁴INSERM Paris, Paris, France; ⁵Statens Arbeidsmiljøinstitutt, STAMI, Oslo, Norway; and ⁶Stem Cell Institute Leuven, Department of Development and Regeneration, KU Leuven, Leuven, Belgium.
- #3674 **Poster Board Number A102**
Co-regulated gene network analysis to uncover mechanisms of liver toxicity liabilities *in vitro*. S. Bahtiri, S. Kunnen, L. Wijaya, T. Hagens, G. Callegaro, M. Niemeijer, and B. van de Water. Leiden Academic Centre for Drug Research, Universiteit Leiden, Leiden, Netherlands.
- #3675 **Poster Board Number A103**
Comparative Analysis of Species-Specific Hepatocyte Function and Drug Effects in Static Monolayers, Spheroids, and a Perfused Microphysiological System. C. K. Negi¹, C. Sakolish¹, P. Hewitt², and I. Rusyn¹. ¹Department of Veterinary Physiology and Pharmacology, College of Veterinary Medicine and Biomedical Sciences, Texas A&M University, College Station, TX; and ²Chemical and Preclinical Safety, Merck KGaA, Frankfurterstrasse 250, 64271, Darmstadt, Germany.
- #3676 **Poster Board Number A104**
Preliminary evaluation of donor variability in albumin secretion for fit-for-purpose applications of primary human hepatocytes. M. Nautiyal¹, L. Nguyen¹, K. Grady², and A. Sharma¹. ¹Lonza Durham, Morrisville, NC; and ²Lonza Walkersville Inc., Walkersville, MD. Sponsor: *K. Dunnick*
- #3677 **Poster Board Number A105**
Targeted Lipidomics as a High-Throughput New Approach Method for Mechanism-Based Assessment of Drug-Induced Liver Injury *In Vitro*. T. Yen, C. K. Negi, C. Sakolish, and I. Rusyn. Texas A&M University, College Station, TX.

- #3678 **Poster Board Number A106**
Evaluation of Drug-Induced Liver Injury in Microphysiological Human Liver-on-Chip Models. T. Kaden^{1,2}, K. Graf¹, K. Rennert¹, R. Li³, A. Mosig^{2,4}, A. Noerenberg⁵, T. Evenburg⁵, and M. Raasch¹. ¹Dynamic42 GmbH, Jena, Germany; ²Institute of Biochemistry II, Center for Sepsis Control and Care, Jena University Hospital, Jena, Germany; ³Biopredic International, St Gregoire, France; ⁴Cluster of Excellence Balance of the Microverse, Friedrich Schiller University Jena, Jena, Germany; and ⁵Upcyte Technologies GmbH, Hamburg, Germany. Sponsor: C. Roper
- #3679 **Poster Board Number A107**
A Translational 3D Spheroid Assay for Preclinical Assessment of Drug-Induced Liver Injury. J. Jia, Z. Wang, C. Zhang, and M. M. Xu. Pharmaron (Ningbo) Technology Development Co., Ltd., Ningbo City, Zhejiang Province, China. Sponsor: S. Luo
- #3680 **Poster Board Number A108**
Untargeted Lipidomics Reveals Mechanistic Signatures of Drug Induced Hepatotoxicity in Rat Hepatocytes. S. Zhang, X. Li, J. Lai, D. Li, C. Han, and M. M. Xu. Pharmaron Beijing Co., Ltd., Beijing, China. Sponsor: S. Luo
- #3681 **Poster Board Number A109**
Phenotypic Profiling of Drug-Induced Liver Injury Using Cell Painting in 2D and 3D Human Hepatocyte Models. J. Xu, Z. Wu, Y. Wang, and F. He. Pharmaron Beijing Co., Ltd., Beijing, China. Sponsor: S. Luo
- #3682 **Poster Board Number A110**
Assessment of Primary Human Liver Microtissue Performance Consistency Across Donor Lots and Production Runs. L. Fäs, M. Colombo, D. Busler, A. Borgström, B. G. Filippi, and A. Raghunathan. InSphero AG, Schlieren, Switzerland. Sponsor: W. Tong
- #3683 **Poster Board Number A111**
Development of a human-relevant *in vitro* model of early-stage cholangiocarcinogenesis using HepaRG spheroids. N. Takahashi^{1,2}, P. Pediaditakis¹, R. Cortes¹, S. Ferguson¹, and A. Pandiri¹. ¹NIEHS, Durham, NC; and ²IET, Ibaraki, Japan.
- #3684 **Poster Board Number A112**
Role of Hydrolysis in the Cytotoxicity of 3-(3,5-Dichlorophenyl)-2,4-thiazolidinedione (DCPT) and Its Metabolites in HepG2 Cells. Z. Feng, and P. Harvison. Saint Joseph's University, Philadelphia, PA.
- #3685 **Poster Board Number A113**
3D Spheroid Formation of Rat and Human Cryopreserved Hepatocytes to Develop Model Systems for Liver Disease and Drug Development. D. T. Parks, B. S. Vasquez, J. J. Odanga, S. M. Anderson, S. C. Presnell, J. Chen, and J. R. Weaver. LifeNet Health, Virginia Beach, VA.
- #3686 **Poster Board Number A114**
Precision-Cut Liver Slices provide a human, immune-competent tissue model for mechanistic assessment of immune-related Drug-Induced Liver Injury. S. Dehmel¹, K. Schmidt¹, F. Dahlmann¹, J. Fiedler¹, C. Hesse¹, H. Aselmann¹, J. Fangmann², S. Escher¹, and K. Sewald¹. ¹Fraunhofer Institute for Toxicology and Experimental Medicine (ITEM), Hanover, Germany; and ²KRH Siloah Hospital, Hepatobiliary Surgery, Hanover, Germany.
- #3687 **Poster Board Number A115**
Microphysiological liver-on-chip integrating HepaRG™ cells and liver sinusoidal endothelial cells (LSECs) for drug-induced liver injury assessment. H. Coppens-Exandier¹, A. Giau¹, A. Mesic², L. Blasco³, P. Bachour El Azzi¹, A. Jamin¹, and E. Subileau¹. ¹Biopredic International, Saint-Grégoire, France; ²ENS Paris – Saclay Laboratoire LUMIN (UMR9024), Orsay, France; and ³Institut FEMTO-ST (UMR6174), Besançon, France. Sponsor: M. Pallardy

- #3688 **Poster Board Number A116**
Systematic characterization of transcriptional reprogramming by non-genotoxic carcinogens after single or repeated exposure of hiPSC-derived hepatocyte-like cells.
 L. Xu, P. J. Bouwman, and B. van de Water. Leiden Academic Centre for Drug Research, Leiden University, Leiden, Netherlands.
- #3689 **Poster Board Number A117**
Trends in Intrinsic Clearance of Drugs in *In Vitro* Liver Test Systems: Insights from a CRO's Microsome and Hepatocyte Data. T. A. Mueller¹, L. J. Haupt², C. E. Noah¹, and B. W. Ogilvie². ¹BioIVT, Hicksville, NY; and ²BioIVT, Kansas City, KS. Sponsor: T. Mueller, International Society for the Study of Xenobiotics
- #3690 **Poster Board Number A118**
Microphysiological Systems as Predictive Tools for Liver Toxicity and Metabolic Function: A Multi-platform Comparative Study. C. Sakolish¹, P. Hewitt², R. Villenave³, H. Nah⁴, S. Khetani⁴, and I. Rusyn¹. ¹Texas A&M University, College Station, TX; ²Merck KGaA, Darmstadt, Germany; ³Roche Pharma Research and Early Development, Basel, Switzerland; and ⁴University of Illinois, Chicago, IL.
- #3691 **Poster Board Number A119**
Novel Role of Macrophage Migration Inhibitory Factor in Hepatocyte Organellar Stress.
 D. J. Moinet, A. Zaman, N. Fatima, and K. L. Poulsen. Michigan State University, East Lansing, MI.
- #3692 **Poster Board Number A120**
Hepatic Stellate Cell Activation Drives Hepatocyte Sensitivity to *in vitro* Drug Toxicity.
 K. Twaroski, I. Gurevich, K. Willis, R. Fiene, and C. Carlson. FUJIFILM Cellular Dynamics, Inc, Madison, WI. Sponsor: R. Vaidyanathan
- #3693 **Poster Board Number A121**
Development and Characterization of a Patient-Derived Liver Organoid Biobank.
 R. Bhowmick¹, B. O'Donnell¹, F. Pan¹, M. Rahman¹, S. Wani¹, W. Kools², P. Hewitt³, and V. Chu¹. ¹MilliporeSigma, Temecula, CA; ²MilliporeSigma, Burlington, MA; and ³Merck Healthcare KGaA, Darmstadt, Germany.
- #3694 **Poster Board Number A122**
FUNCTIONALLY RELEVANT hPSC-DERIVED HEPATOCYTES AND LIVER ORGANOIDs FOR HEPATOTOXICITY AND LIVER BIOLOGY MODELING. R. Sharma¹, C. Haston¹, J. Christie¹, A. V. Sampaio¹, E. Nolan¹, A. C. Eaves^{1,2}, S. A. Louis¹, and R. K. Conder¹. ¹STEMCELL Technologies, Vancouver, BC, Canada; and ²Terry Fox Laboratory, BC Cancer, Vancouver, BC, Canada. Sponsor: K. Tse
- #3695 **Poster Board Number A123**
Chronic Cadmium and Glucose Crosstalk Drives Hepatic Lipid Dysregulation through PPAR Signaling and Membrane Remodeling in Hepatocellular Carcinoma cell lines.
 R. Kumar, A. Chinala, and R. R. Gullapalli. University of New Mexico, Albuquerque, NM.
- #3696 **Poster Board Number A124**
The effect of 2,3,7,8-tetrachlorodibenzo-*p*-dioxin (TCDD) on human liver cells-derived spheroids. A. Wojtowicz, K. Orłowska, and T. R. Zacharewski. Michigan State University, East Lansing, MI.
- #3697 **Poster Board Number A125**
Integrated Assessment of Drug-Induced Cholestasis Using Sandwich-Cultured Human Hepatocytes: Combining Kinetic High-Content Imaging, Cytotoxicity Endpoints, and Transporter Inhibition for Early Discovery De-Risking. S. Madden, B. Park, S. Bevan, J. Eakins, and P. Walker. Cyprotex Discovery Ltd, Alderley Park, Cheshire, United Kingdom. Sponsor: C. Strock
- #3698 **Poster Board Number A126**
Effects of chronic overnutrition on mitoNEET in mouse livers. J. Shin, Y. Lin, W. Chapman, and J. Kim. Washington University in St. Louis, St. Louis, MO.

- #3699 **Poster Board Number A127**
Multidrug Resistance-Associated Protein 4 (MRP4) Deficiency Disrupts Hepatic Lipid Homeostasis and Exacerbates Metabolic Dysfunction-Associated Steatotic Liver Disease.
H. Wu, A. P. Laddha, and J. E. Manautou. University of Connecticut, Storrs, CT.
- #3700 **Poster Board Number A128**
Integration of HLA-Typed PBMC into a Long-term, Functional Hepatocyte Co-culture, HEPATOPAC®, for Detection of Immune-Mediated Drug-Induced Liver Injury. K. E. Cottier¹, J. Gaffney², S. Heyward¹, C. Smith¹, J. Griffith¹, and C. Lewis¹. ¹BioIVT, Baltimore, MD; and ²BioIVT, Medford, MA. Sponsor: K. Cottier, International Society for the Study of Xenobiotics
- #3701 **Poster Board Number A129**
Impairment of Chaperone-mediated autophagy leads to TRIM44-mediated TLR4 deubiquitination and hepatic inflammation. B. Lee¹, J. Hyun¹, Y. Choi², and Y. Choi¹. ¹Seoul National University, Seoul, Korea, Republic of; and ²Daegu Catholic University, Gyeongsan, Korea, Republic of.
- #3702 **Poster Board Number A130**
Effect of cytokines on human angiotensinogen acute phase response: an *in vitro* study.
A. Khan, Y. Omid, J. Barar, and R. A. Ansari. Nova Southeastern University, Fort Lauderdale, FL.
- #3703 **Poster Board Number A131**
Pioglitazone-Mediated Upregulation of Hepatic Low-Density Lipoprotein Receptor-Related Protein 1 (LRP1): Exploring a Metabolic Link to Alzheimer's Disease. G. Ehlenburg¹, J. Garcia¹, and D. Han². ¹University of La Verne, La Verne, CA; and ²Keck Graduate Institute, Claremont, CA.
- #3704 **Poster Board Number A132**
Oleic Acid as a Potential Modulator of LRP1 and BACE-1 in the Treatment of Alzheimer's Disease. E. Fasih¹, and J. Garcia^{1,2}. ¹University of LaVerne, La Verne, CA; and ²Keck Graduate Institute, Claremont, CA.
- #3705 **Poster Board Number A133**
Nitroalkene therapy for allergen-induced hepatic inflammation and dysregulated metabolism. S. A. Heinig, S. Donepudi, D. Volz, and S. L. Gelhaus. University of Pittsburgh, Pittsburgh, PA. Sponsor: S. Gelhaus, Society for Redox Biology and Medicine
- #3706 **Poster Board Number A134**
Scaling Without Compromise: Liver MPS for Lead Optimization Screens to Investigative Toxicology. O. Novac¹, E. Richardson¹, C. Roper², and T. Kostrzewski¹. ¹CN Bio Innovations, Cambridge, United Kingdom; and ²Roper Toxicology Consulting Limited, Edinburgh, United Kingdom.
- #3707 **Poster Board Number A135**
Clinically Benchmarked 3D Human Liver Spheroids Advance DILI Prediction and Within-Class Differentiation. M. Mehrabi, R. Dudum, P. Olson, C. Toohey, H. Aidnik, C. Rosette, and K. Murphy. VivoSim Labs, San Diego, CA. Sponsor: C. Tyree
- #3708 **Poster Board Number A136**
Human Liver Organoid Models: Advancing Drug Toxicity Assessment. B. Torenvliet¹, J. Frias Aldeguer¹, J. Wijnakker¹, X. Fan², F. Pourfarzad¹, R. Palstra², R. G. Vries¹, T. Mahmoudi², and S. Boj¹. ¹HUB Organoids B.V., Utrecht, Netherlands; and ²ErasmusMC, Rotterdam, Netherlands. Sponsor: R. Vries, American Association for Cancer Research
- #3709 **Poster Board Number A137**
Human 3D Liver Spheroids Establish a NAM for ADC DILI Risk Assessment. M. Mehrabi, R. Dudum, P. Olson, C. Toohey, H. Aidnik, C. Rosette, and K. Murphy. VivoSim Labs, San Diego, CA. Sponsor: C. Tyree

#3710	Poster Board Number A138 Development of iPSC-Derived Human Liver Organoids for Preclinical Drug Testing and Toxicology Studies. F. Pan ¹ , M. Rahman ¹ , D. Austin ¹ , S. Krieg ² , L. M. Pfeifer ² , P. Hewitt ² , S. Johnston ³ , L. Braeuninger-Weimer ² , W. Kools ⁴ , and V. Chu ¹ . ¹ MilliporeSigma, Temecula, CA; ² Merck KGaA Darmstadt, Darmstadt, Germany; ³ MilliporeSigma, Tempe, AZ; and ⁴ MilliporeSigma, Burlington, MA.
#3711	Poster Board Number A139 DEVELOPMENT OF HUMAN IPSC-DERIVED HEPATOCYTES FOR DRUG DISCOVERY, TRANSLATIONAL RESEARCH AND TOXICITY TESTING. G. Mastrogiovanni, S. Ghimire, R. Piscupescu, J. Hundling, N. James, V. Cornelius, S. Milde, A. Knights, V. Yianni, T. Harris-Brown, B. Newman, K. Firth, and W. Bernard. bit.bio, Cambridge, United Kingdom. Sponsor: T. Harris-Brown, Safety Pharmacology Society
#3712	Poster Board Number A140 Development of a tiered-approach for the assessment of potential hepatotoxicity. K. Headrick, M. Culbreth, R. Sprando, and K. Eckstrum. US Food and Drug Administration, Laurel, MD.
#3713	Poster Board Number A141 Evaluating the hepatotoxic potential of Green Tea and Kava Root Extract in primary human hepatocytes. K. Headrick, Y. Zhao, E. Sepehr, Y. Liu, and K. Eckstrum. US FDA, Laurel, MD.

Tuesday, March 24, 9:15 AM to 11:45 AM, Exhibit Hall B, Convention Center

PS **Poster Session: AI/Machine Learning I**

Chair(s): Kathryn Konrad, DHL Inc.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 9:15 AM–11:45 AM

Abstract #

#3714	Poster Board Number A145 ML/AI assisted digital measure of pica behavior in emetic-induced rat emesis model. C. Liu ¹ , B. Lawrence ² , and Z. Wright ³ . ¹ Pfizer, Groton, CT; ² Pfizer, Cambridge, MA; and ³ SwiftScience, Pittsburgh, PA. Sponsor: X. Tang
#3715	Poster Board Number A146 Can Large Language Models Assist in Expert Review? A Study Using <i>In Silico</i> Bacterial Mutagenicity Predictions under ICH M7. R. Saiakhov, and K. Favre. MultiCASE, Inc., Mayfield Heights, OH.
#3716	Poster Board Number A147 Agentic AI for Human Safety Risk Assessment: A Proof-of-Concept for Multi-Agent Collaboration in Regulatory Toxicology. D. Geter. Bayer CropScience, Chesterfield, MO.
#3717	Poster Board Number A148 From Regulatory Needs to Ready-to-Use NAMs: Operationalizing the SSbD Approach with NAMs.network. K. Jagiello, A. Sosnowska, M. Stepnik, M. Gromelski, E. Wyrzykowska, K. Falkiewicz, S. Zdybel, and T. Puzyn. QSARLab, Gdansk, Poland.
#3718	Poster Board Number A149 Dose-Enabled AI Modeling of Drug Induced Liver Injury (DILI) Risk: Advancing NAMs for Safer Drug Development. M. Rao ¹ , V. Nassiri ² , P. Bajaj ¹ , P. Monecke ³ , and C. Sachs ⁴ . ¹ Sanofi Pharmaceuticals, Cambridge, MA; ² Open Analytics, Antwerpen, Belgium; ³ Sanofi Pharmaceuticals, Frankfurt, Germany; and ⁴ CS, San Diego, CA.

- #3719 **Poster Board Number A150**
Novel Machine Learning Algorithms Allow Fast and Accurate Automated Counting of Primary Hepatocyte Samples. D. Schieffer¹, D. Ash¹, and K. Cottier². ¹DeNovix Inc, Wilmington, DE; and ²BioIVT, Baltimore, MD. Sponsor: K. Cottier, International Society for the Study of Xenobiotics
- #3720 **Poster Board Number A151**
Beyond spatiotemporal modeling: applications of machine learning for traffic-related airpollution toward non-exhaust emissions. N. Ho¹, S. Dhayade², Y. Zhang³, Y. Zhang², J. Li¹, Y. Li², Y. Shen², Y. Zhu¹, and F. Gao¹. ¹University of California Los Angeles, Los Angeles, CA; ²University of Texas at Arlington, Arlington, TX; and ³Texas A&M University, College Station, TX.
- #3721 **Poster Board Number A152**
Harnessing Artificial Intelligence To Advance Clinical Pharmacology And DMPK In Drug Development. D. Thomas¹, A. Nielsen¹, T. Vargues², and O. Barberan². ¹Elsevier, Inc., San Diego, CA; and ²Elsevier, Inc., Amsterdam, Netherlands. Sponsor: D. Thomas, International Society for the Study of Xenobiotics
- #3722 **Poster Board Number A153**
Interpretable Deep Learning Framework for Predicting Protein Corona Adsorption and Abundance on Nanoparticles. K. Li, A. Canchola, K. Chen, A. Borboa-Pimentel, C. Chou, and R. D. Rama. University of California, Riverside, Riverside, CA.
- #3723 **Poster Board Number A154**
Uncertainty Quantification in Toxicity Machine Learning Models for Use in MegaTox. J. S. Harris, M. Hamilton, P. A. Vignaux, T. R. Lane, and S. Ekins. Collaborations Pharmaceuticals, inc., Raleigh, NC.
- #3724 **Withdrawn.**
- #3725 **Poster Board Number A156**
A second-generation artificial intelligence-assisted physiologically based pharmacokinetic model to predict nanoparticle tumor delivery in mice. K. Mi^{1,2}, Q. Chen^{1,2}, V. Sundaram³, I. J. Santhosh³, H. Quazi³, C. He¹, N. A. Monteiro-Riviere^{4,5}, J. E. Riviere^{5,6}, S. Arya³, and Z. Lin^{1,2}. ¹College of Public Health and Health Professions, University of Florida, Gainesville, FL; ²Center for Environmental and Human Toxicology, University of Florida, Gainesville, FL; ³The Ben and Maytee Fisch College of Pharmacy, The University of Texas at Tyler, Tyler, TX; ⁴Nanotechnology Innovation Center of Kansas State, Kansas State University, Manhattan, KS; ⁵Center for Chemical Toxicology Research and Pharmacokinetics, North Carolina State University, Raleigh, NC; and ⁶1Data Consortium, Kansas State University, Olathe, KS.
- #3726 **Poster Board Number A157**
Prediction of Ocular Toxicity using Machine Learning Models. R. Xu, T. Xu, J. Zhao, M. Xia, A. Simeonov, and R. Huang. NIH, Rockville, MD.
- #3727 **Poster Board Number A158**
Integrating Machine Learning Approaches for Neurotoxicity Prediction: Combining Tox21 Assay Datasets and Chemical Structures. Z. Li, T. Xu, L. Zhang, M. Xia, and R. Huang. NCATS, Rockville, MD.

PS **Poster Session: Medical Devices II**

Chair(s): Alex Gauthier, Novartis AG; and Swati Rawat, Becton Dickinson.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 9:15 AM–11:45 AM

Abstract #

- #3728 **Poster Board Number** **B160**
Combined evaluation using three *in vitro* testing methods for skin sensitization of medical device materials. M. Okada, H. Tabata, K. Suzuki, and A. Kaneki. Terumo, Nakaimachi, Japan. Sponsor: M. Okada, Japanese Society of Toxicology
- #3729 **Poster Board Number** **B161**
Development of an Artificial Intelligence tool to support processing data from Extractables & Leachable studies for toxicological risk assessments. O. Odia, V. F. Thoranath, V. Dowling, J. Noyes, M. Ibrez, and G. Frost. Cardinal Health, Dublin, OH.
- #3730 **Poster Board Number** **B162**
Chemical Characterization of Medical Devices: How Creativity and Care Play a Role in Effective Study Design. C. D. Oberle. Eurofins EAG, St. Louis, MO. Sponsor: S. Parker
- #3731 **Poster Board Number** **B163**
Extractable and Leachable Tin from Medical Devices: Influence of Speciation on Toxicological Limits and Considerations for Chemical Characterization. A. DeGraw, S. Bond, M. Galati, N. Fredrick, and M. Louis. Jordi Labs, Mansfield, MA.
- #3732 **Poster Board Number** **B164**
Hazard Evaluation and Structural Analysis of Organophosphorus in Medical Device Extractables and Leachables Datasets. M. T. Matsushita¹, B. A. Cronin², H. J. Gadol², and R. Y. Chang¹. ¹Gradient, Seattle, WA; and ²Gradient, Boston, MA.
- #3733 **Poster Board Number** **B165**
Integrating Total Organic Carbon (TOC) Analysis into Chemical Characterization for Toxicological Risk Assessment: A Case Study Evaluating the Relationship Between TOC and Gravimetric Residues. S. Kearing, C. Meakin, and L. Borton. Gradient Corp, Boston, MA.
- #3734 **Poster Board Number** **B166**
Considering Physiological Environment in Study Selection for Toxicological Evaluation of Implantable Devices: Case Study of Polyurethane Foam-Coated Implants. M. A. Arnold¹, B. Head¹, and M. J. Kratochvil². ¹Exponent, Inc., Washington, DC; and ²Exponent, Inc., Bowie, MD.
- #3735 **Poster Board Number** **B167**
Applying the U.S. EPA SWIMODEL Assay for Toxicological Risk Assessment of Ethylene Oxide Residues: A Case Study on an EO Sterilized Medical Device. B. Patel, J. Brees, C. Jurkiewicz, and A. Luniwal. Medline Industries LP, Northfield, IL.
- #3736 **Poster Board Number** **B168**
Evaluation of the carcinogenic potential of nickel-containing implants and associated alloys. M. Kovochich¹, K. E. Heim², A. R. Oller³, S. Buxton², S. L. More⁴, A. M. Schulte⁴, and D. G. Kougias¹. ¹K2 Toxicology and Integrated Risk Assessment, LLC, Las Vegas, NV; ²NiPERA, Durham, NC; ³Oller Consulting LLC, Durham, NC; and ⁴MCRA, Washington, DC.
- #3737 **Poster Board Number** **B169**
Material Equivalence in Medical Devices: A Risk-Stratified, Weight of Evidence Approach. A. Kozak, and T. Jenkins. Edwards Lifesciences, Irvine, CA. Sponsor: J. Cohen

#3738	Poster Board Number B170 Assessing the application of <i>In vitro</i> Irritation in a diverse range of Medical Devices. <i>V. Dowling, B. Patterson, D. Chang, and G. Frost. Cardinal Health, Ohio, OH.</i>
#3739	Poster Board Number B171 Data Deconvolution and High-Resolution Mass Spectrometry in Medical Device Chemical Characterization: Case Studies on TRA Impact. L. Chapman, and C. Chamberlain. EAG Laboratories, St. Louis, MO. Sponsor: <i>S. Parker</i>
#3740	Poster Board Number B172 Avoiding False Positives in Medical Device Risk Assessment: Differentiating Real MDI from Analytical Artifact. <i>C. Schultz, C. Shaffer, K. Kalstabakken, P. Steen, A. Marcella, N. Olvera, and J. Warmka. Boston Scientific, St Paul, MN.</i>
#3741	Poster Board Number B173 Chemometric Approaches to ISO 10993-18 Workflows - Accelerating Risk-Based Approaches for Rapid Chemical Characterization. M. Rush ¹ , P. Poudel ¹ , <i>N. Kothalawala¹, D. Ricker¹, D. Pastarnak¹, and G. Charles².</i> ¹ Edwards Lifesciences, Draper, UT; and ² Edwards Lifesciences, Irvine, CA.
#3742	Poster Board Number B174 Survey of Neurotoxins Released from Medical Devices. <i>M. Khazaei, E. M. Kaye, and J. M. Cohen. Gradient, Boston, MA.</i>
#3743	Poster Board Number B175 Comparative Application of ISO 18562-1:2017 and ISO 18562-1:2024 in Toxicological Risk Assessment of VOS Emissions from a Breathing Gas Pathway Device. A. Minich, B. Bowe, H. Reamer, and G. Letellier. Intertek, Boca Raton, FL.
#3744	Poster Board Number B176 VOCs in ISO 18562-1:2024: Risk-Based Modelling of Patient Exposure from Breathing Gas Pathway Devices. A. Yip, and J. Hummel. Resmed, Bella Vista, Australia.
#3745	Poster Board Number B177 How the ASTM F2382-24 Update Is Changing PTT Test Evaluation for Medical Devices. M. Cunningham, A. Knutson, and F. K. Hsia. Global Toxicology, Biocompatibility & Chemical Characterization, Preclinical Sciences, Boston Scientific Corporation, Arden Hills, MN.
#3746	Poster Board Number B178 Modernizing Menstrual Care: Key Insights from FDA's Updated Guidance. A. Schulte, E. Sussman, K. Gallagher, C. Soendergaard, B. Woodford, R. Allen, and S. More. MCRA, an IQVIA Business, Washington, DC.
#3747	Poster Board Number B179 Comparative Review of Carcinogenicity Testing Guidelines in Context of Medical Device Risk Assessment. <i>M. Khazaei¹, R. Chang², and J. E. Goodman³.</i> ¹ Gradient, Charlottesville, VA; ² Gradient, Seattle, WA; and ³ Gradient, Boston, MA.
#3748	Poster Board Number B180 Varied Global Regulatory Requirements in Medical devices for a Material Formulation Change - A Case Study. <i>S. Vijaykumar, Y. Zhou, S. Roller, and E. Patel. Johnson & Johnson MedTech, Cincinnati, OH.</i>
#3749	Poster Board Number B181 Evaluation of Degradation of Polyurethane Oligomers to MDI or MDA: Cohort of Concern or No Concern? E. K. Long ¹ , M. Giffin ² , S. M. Street ¹ , K. L. Pacholke ¹ , and L. M. Harrington ¹ . ¹ Medtronic, Minneapolis, MN; and ² Medtronic, Ogden, UT.

#3750	Poster Board Number B182 LS-100 and LS-200: Novel, hemocompatible nanoparticles with unexpected pharmacological properties. <i>N. Akers¹, A. Harmon¹, M. R. Smith¹, C. E. Astete², C. Sabliov², and T. R. Dugas¹.</i> ¹ Louisiana State University School of Veterinary Medicine, Baton Rouge, LA; and ² Louisiana State University, Baton Rouge, LA.
#3751	Poster Board Number B183 PFAS in Chronically Implanted Cardiac Leads. <i>L. M. Harrington¹, M. Giffin², S. M. Street¹, K. L. Pacholke¹, E. K. Long¹, and K. A. Chaffin¹.</i> ¹ Medtronic Inc, Fridley, MN; and ² Medtronic Inc, Ogden, UT.
#3752	Poster Board Number B184 Assessing PFAS Biological Risks from Medical Devices Under ISO 10993-1 - Material Properties and Chemical-Specific Effects on Leachability, Systemic Exposure, Bioaccumulation, and Toxicity. <i>R. Sloboda.</i> Toxicological Data Assessment Consulting, LLC, Pepperell, MA.
#3753	Poster Board Number B185 Prevalence and Toxicity Evaluation of the Types of PFAS Found in Medical Device Extractables and Leachables Datasets. <i>B. A. Cronin¹, M. T. Matsushita², M. B. Knapp¹, R. Y. Chang², and J. Zhang¹.</i> ¹ Gradient, Boston, MA; and ² Gradient, Seattle, WA.

Tuesday, March 24, 1:45 PM to 4:15 PM, Exhibit Hall B, Convention Center

PS Poster Session: Safety Assessment: Non-pharmaceutical

Chair(s): Jennifer Ator, ToxServices LLC.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 1:45 PM–4:15 PM

Abstract #

#3754	Poster Board Number B187 A Tiered Safety Strategy for a Novel Personal Care Product Category - Whole Body deodorant: From <i>in Vitro</i> Models to Clinical Validation. <i>L. Wong, H. S. Chaudhari, K. Pryce, D. Orak, and D. Gossai.</i> L'Oréal Research & Innovation, Clark, NJ.
#3755	Poster Board Number B188 Untargeted Exposomic Analysis of CBD Oil Tinctures and Personal Care Products. <i>X. Hu, S. Forsido, Y. Liang, J. Weinburg, M. Orr, D. Wang, B. Minasenko, Z. R. Jarrell, and D. P. Jones.</i> Emory University, Atlanta, GA.
#3756	Poster Board Number B189 Personal care product ingredient safety disparities based on demographic marketing: opportunities for alternatives assessment and consumer education. <i>K. Beins¹, A. Friedman¹, H. Lin², and L. Sweet Duffy¹.</i> ¹ Environmental Working Group, Washington, DC; and ² ChemFORWARD, Washington, DC.
#3757	Poster Board Number B190 Evaluation of the Safety of Raspberry Ketone and Its Skin Compatibility in Cosmetics through New Approach Methodologies (NAM) and Mode of Action Mechanism Analysis. <i>S. Kim¹, and I. Garcia².</i> ¹ Ashland Inc, Lincoln, CA; and ² Ashland Specialties France, Sophia Antipolis, France.

- #3758 **Poster Board Number B191**
Proteomic analysis of the effects of the novel refrigerant R-1132(E) on rabbit kidney and liver from a 28-day inhalation study. N. Mori¹, S. Hiroaki¹, R. Takeda¹, A. Kuno¹, R. Kobayashi¹, Z. Guo², and Y. S. Kida¹. ¹National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, Japan; and ²Daikin Industries, Ltd., Osaka, Japan. Sponsor: *T. Fukuyama*
- #3759 **Poster Board Number B192**
Normal, But Not Normal, Review of Some Vehicle-Related Histopathology Findings in the Concurrent Control Animals in the General Toxicity Studies. F. Zhou¹, X. x. Zhao², T. s. Zhou², L. Jing¹, L. Zhu², M. x. Zhang², and A. Leone². ¹WuXi AppTec (Nantong) Co., Ltd, Nantong, China; and ²WuXi AppTec (Suzhou) Co., Ltd, Suzhou, China. Sponsor: F. Zhou, Society of Toxicologic Pathology
- #3760 **Poster Board Number B193**
Formalin-Fixed, Paraffin-Embedded (FFPE) Tissues for Retrospective Transgenic Mouse (rasH2) Genotyping. J. A. Detert¹, L. Davenport², R. Neupane³, and M. He⁴. ¹Labcorp, Madison, WI; ²Sanofi, Morristown, NJ; ³Avance Biosciences Inc., Houston, TX; and ⁴formerly of Avance Biosciences Inc., Houston, TX.
- #3761 **Poster Board Number B194**
Refining Acute Oral and Inhalation Toxicity Testing: Current Practices and Opportunities. M. A. Blee, and F. Sewell. National Centre for the Replacement, Refinement and Reduction of Animals in Research (NC3Rs), London, United Kingdom.
- #3762 **Poster Board Number B195**
Forensic Sampling and Risk Assessment of Downwind Chlorine Plumes on Paper Products Following a 2024 Chemical Storage Fire. K. McCauley, K. Kissell, and D. Paustenbach. TRC Strategic Health Sciences, Jackson, WY.
- #3763 **Poster Board Number B196**
Rapid Assessment of Skin Integrity Using 1-Hour Tritiated Water (%Absorption) in Regulatory OECD TG 428 Dermal Absorption Studies. R. Nagane¹, K. R. Desai¹, J. R. Ranade¹, V. P. Thakor¹, I. M. Barad¹, A. D. Deshpande¹, C. S. Roper², and M. V. Patel¹. ¹Jai Research Foundation, Vapi, Gujarat, India; and ²Roper Toxicology Consulting Limited, Edinburgh, United Kingdom.
- #3764 **Poster Board Number B197**
Modernizing Sunscreen Safety: Comprehensive Review of UV Filter Toxicity and Human Health Risk Assessment. K. G. Norman¹, A. Kowcz¹, L. E. Kaufman², C. D'Ruiz³, and J. F. Nash⁴. ¹Personal Care Products Council, Washington, DC; ²Scripterra Scientific LLC, Wooster, OH; ³dsm-firmenich, Princeton, NJ; and ⁴Procter & Gamble, Mason, OH.

Tuesday, March 24, 1:45 PM to 4:15 PM, Exhibit Hall B, Convention Center

PS Poster Session: Metals I

Chair(s): Mayukh Banerjee, University of Louisville; and Steven Boomhower, Gradient.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 1:45 PM–4:15 PM

Abstract #

- #3765 **Poster Board Number C200**
Mercury disposition in Wistar rats after thimerosal exposure. M. Galicioli¹, L. Joshee², A. M. Kiefer², C. S. Seney², D. Grizzle², C. S. Oliveira¹, and C. C. Bridges². ¹Instituto de Pesquisa Pelé Pequeno Príncipe, Curitiba, Brazil; and ²Mercer University, Macon, GA.

- #3766 **Poster Board Number** C201
A novel air sampler using a wet inertial impactor to collect welding fume particles in liquid media for analytical and toxicological studies. *S. Han, C. Lee, and J. Park.* Purdue University, West Lafayette, IN.
- #3767 **Poster Board Number** C202
Parental dietary exposure to an arsenic-contaminated natural diet induces neurobehavioural impairments in Zebrafish (*Danio rerio*) offspring. *S. K. Putnala, F. da Silva, O. Luo, M. Rachamalla, M. Hecker, and S. Niyogi.* University of Saskatchewan, Saskatoon, SK, Canada.
- #3768 **Poster Board Number** C203
Low Dose Heavy Metal Exposure Reprograms Central Metabolism in Human Fetal Lung Fibroblasts. *J. Korn¹, D. Wang², and X. Hu².* ¹Emory University, Atlanta, GA; and ²Emory University Rollins School of Public Health, Atlanta, GA.
- #3769 **Poster Board Number** C204
Exposure to Hexavalent Chromium in Drinking Water Induces Sex-Dependent Essential Metal Dyshomeostasis in the Liver, Blood, and Brain of Guinea Pigs After 90 Days. *M. E. Delnicki¹, S. T. Vielee², G. C. Griffin¹, I. Meaza³, O. Ogunsuyi³, F. Gueye³, A. Brownell³, N. Butzke-Souza³, J. Easley³, H. Lu³, S. S. Diven³, J. C. Kouokam³, J. P. Wise Jr.⁴, J. P. Wise Sr.³, and J. L. Wise¹.* ¹Wise Laboratory of Liver and Environmental Health, Department of Pharmacology and Toxicology, University of Louisville, Louisville, KY; ²Marine Biological Research Program, Mote Marine Laboratories and Aquarium, Sarasota, FL; ³Wise Laboratory of Environmental and Genetic Toxicology, Department of Pharmacology and Toxicology, University of Louisville, Louisville, KY; and ⁴NeuroWise Laboratory, Department of Pharmacology and Experimental Therapeutics, University of Toledo, Toledo, OH.
- #3770 **Poster Board Number** C205
Validation of XRF Bone Lead Measurement in Black Vultures and Developing Next-Generation Portable XRF Instrumentation. *T. Grier¹, A. Specht¹, B. Faber¹, S. Silva Costa¹, T. Katzner², S. Proctor³, and D. Goodman⁴.* ¹Purdue University, West Lafayette, IN; ²U.S. Geological Survey, Forest and Rangeland Ecosystem Science Center, Boise, ID; ³USARIEM, Natick, MA; and ⁴H3D, Ann Arbor, MI.
- #3771 **Poster Board Number** C206
Development and Validation of an HPLC Assay to Measure Anti-Oxidant GSH and Lipid Peroxidation Metabolite MDA to Understand Oxidative Stresses in a Hepatocellular Model. *A. R. Chinala, R. Kumar, and R. Gullapalli.* University of New Mexico, Albuquerque, NM.
- #3772 **Poster Board Number** C207
Evaluating the Fibrogenic Effects of Tungsten Particulate Exposure in 3T3 and HFL1 Fibroblasts. *J. A. Tjung, C. M. McVeigh, J. L. Moreno, S. C. Helewicz, and A. M. Bolt.* University of New Mexico, College of Pharmacy, Albuquerque, NM.
- #3773 **Poster Board Number** C208
Disruption of Early Human Red Blood Cell Development by Arsenite and Its Primary Metabolite Monomethylarsonous Acid. *A. S. Armijo¹, L. K. Heine¹, G. A. Picha¹, M. A. Esquibel², K. N. Gonzalez¹, B. B. Maes², A. M. Bolt¹, K. Liu³, and S. Medina¹.* ¹Department of Pharmaceutical Sciences, The University of New Mexico College of Pharmacy, Albuquerque, NM; ²University of New Mexico Health Sciences Center, Albuquerque, NM; and ³Stony Brook University, Department of Pathology, Stony Brook, NY.
- #3774 **Poster Board Number** C209
The RAD50 Zinc Hook Motif as a Vulnerable Target in Heavy Metal-Induced Genotoxicity. *A. Arroyo, A. N. Nail, M. Banerjee, and J. States.* University of Louisville, Louisville, KY.

- #3775 **Poster Board Number** C210
Arsenic disrupts autophagosome-lysosome fusion in a zinc dependent manner.
M. Banerjee, R. V. Goff, S. Elmoustapha, and S. D. Thomas. University of Louisville, Louisville, KY.
- #3776 **Poster Board Number** C211
Associations Between Environmental and Biological Metal Concentrations and Self-Reported General Physical and Mental Health Status. E. Sededji¹, S. Liu¹, T. Evans², S. Steiner³, and E. M. Wells¹. ¹Purdue University, West Lafayette, IN; ²Blackford County Concerned Citizens, Hartford City, IN; and ³Purdue University Fort Wayne, Fort Wayne, IN.
- #3777 **Poster Board Number** C212
Investigation of dynamic changes in pain sensitivity induced by methylmercury in mice. R. Yamagata, M. Fujishima, Y. Shoji, N. Yamashita, and G. Hwang. Tohoku Medical and Pharmaceutical University, Sendai, Japan.
- #3778 **Poster Board Number** C213
Does Hexavalent Chromium Exposure Impact The Gut Microbiome of Guinea Pigs?
J. T. Wise¹, E. Özcan², M. E. Delnicki³, S. S. Diven³, J. Easley³, J. C. Kouokam³, J. P. Wise, Jr.⁴, S. T. Vielee³, I. Meaza³, H. Lu³, A. Brownell³, S. Gueye³, G. C. Griffin³, N. Butzke-Souza³, J. P. Wise, Sr.³, and J. L. Wise³.
¹University of Hawai'i, Honolulu, HI; ²Louisiana State University Agricultural Center, Baton Rouge, LA; ³University of Louisville, Louisville, KY; and ⁴University of Toledo, Toledo, OH.
- #3779 **Poster Board Number** C214
As3MT Activity Alters MASLD Phenotypes Following Arsenic Exposure in Mice. M. Zablah^{1,2}, N. Subramanian^{1,2}, C. Guilbert², and K. K. Mann^{1,2,2}. ¹McGill University, Montréal, QC, Canada; and ²Lady Davis Institute, Montréal, QC, Canada.
- #3780 **Poster Board Number** C215
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)-Elicited Disruption of Trace Metal Homeostasis in Wild-Type and Hepatocyte-Specific Aryl Hydrocarbon Receptor (AHR) Null Mice. Z. Smith, K. Orlowska, K. MacRenaris, and T. Zacharewski. Michigan State University, East Lansing, MI.
- #3781 **Poster Board Number** C216
THE IMPACT OF APOLIPOPROTEIN E IN THE TOXICITY OF HEAVY METAL MIXTURES. A. M. Gane¹, A. Blendea¹, A. Bitai¹, R. Mitrut², S. A. Buteica¹, M. Aschner³, and A. O. Docea¹. ¹University of Medicine and Pharmacy of Craiova, Craiova, Romania; ²Clinical County Emergency Hospital, Craiova, Romania; and ³Albert Einstein College of Medicine, Craiova, NY.
- #3782 **Poster Board Number** C217
Multi-omic Hepatic Signature of Chronic Exposure to Arsenic and Uranium in Drinking Water. C. M. Lucey¹, K. DeSantis², V. Caruana³, N. Subramaniam³, A. Zengin³, N. Gagnon³, N. Kukolj³, A. Kupsco¹, K. K. Mann³, and B. Pearson². ¹Columbia University, New York, NY; ²Oregon State University, Corvallis, OR; and ³McGill University, Montreal, QC, Canada.
- #3783 **Poster Board Number** C218
Bayesian Network with Bootstrapping Analysis of the Effect of Exposure to Welding Fume Metal Mixtures on Cognitive Abilities, Motor Functions and Mood Symptoms.
J. Kuhn¹, R. Harold², C. G. Lee², J. H. Park², D. Foti², and U. Dydak². ¹Purdue University Northwest, Hammond, IN; and ²Purdue University, West Lafayette, IN.
- #3784 **Poster Board Number** C219
Cadmium toxicity by the disruption of glucose transportation system in human proximal tubular cells. J. Lee, M. Tokumoto, and M. Satoh. Aichi Gakuin University, Nagoya, Japan.

- #3785 **Poster Board Number** C220
Spatial characterization of immune cell infiltration in the aortic sinus plaque using a multiplex PhenoCycler assay following arsenic-induced atherosclerosis in mice.
C. Guilbert¹, B. Giles², A. Zengin¹, M. J. Abraham¹, C. Goncalves¹, N. Gagnon¹, S. V. Del Rincon¹, and K. K. Mann². ¹Lady Davis Institute for Medical Research, Montreal, QC, Canada; and ²McGill University, Department of Pharmacology and Therapeutics, Montreal, QC, Canada.
- #3786 **Poster Board Number** C221
Toxic effects of the environmental low-dose cadmium and obesogenic microbiome metabolite delta-valerobetaine on muscle health. *Y. Go, K. Kim, H. Lee, G. Lim, Z. R. Jarrell, C. Lee, H. J. Choo, and D. P. Jones.* Emory University, Atlanta, GA.
- #3787 **Poster Board Number** C222
A Survey of DNA Damage and Metal Exposure in American Alligators (*Alligator mississippiensis*) in Florida. *H. Lu^{1,2}, I. Meaza^{1,2}, R. M. Wise¹, J. T. Wise^{1,3}, S. S. Diven^{1,2}, T. J. Croom-Pérez¹, J. H. Toyoda¹, and J. P. Wise, Sr^{1,2}.* ¹Wise Laboratory of Environmental and Genetic Toxicology, University of Louisville, Louisville, KY; ²Department of Pharmacology and Toxicology, University of Louisville, Louisville, KY; and ³Wise Laboratory of Nutritional Toxicology and Metabolism, Department of Human Nutrition, Food and Animal Sciences, College of Tropical Agriculture and Human Resilience, University of Hawai'i, Honolulu, HI.
- #3788 **Poster Board Number** C223
Cell death mechanism of novel iron-containing terpyridine metal complexes for breast cancer cells. *C. Hu¹, A. Abreu², A. Kanina², G. Zhang², and S. Cheng².* ¹Jericho High School, Jericho, NY; and ²John Jay College of Criminal Justice, New York, NY.

Tuesday, March 24, 1:45 PM to 4:15 PM, Exhibit Hall B, Convention Center

PS Poster Session: Neurotoxicity: General

Chair(s): Marie Bourgeois, University of South Florida; and Dalisa Kendricks, NIEHS.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 1:45 PM–4:15 PM

Abstract #

- #3789 **Poster Board Number** C235
Spatial transcriptomic profiling of glial and neuronal cells during mouse brain aging.
U. Halder¹, H. Hamida¹, E. Saha², P. Nagarkatti¹, and M. Nagarkatti¹. ¹University of South Carolina School of Medicine, Columbia, SC; and ²University of South Carolina Arnold School of Public Health, Columbia, SC.
- #3790 **Poster Board Number** C236
Astrocytic STING signaling mediates wildfire smoke-induced neurotoxicity in primary murine cells. *A. Bibb, A. Schuller, E. Smith, O. Yanouri, M. Hager, L. Montrose, and R. Tjalkens.* Colorado State University, Fort Collins, CO.
- #3791 **Poster Board Number** C237
Protective Effects of the Rho-Kinase Inhibitor Fasudil Against Wildfire Smoke-Induced Neuroinflammation at the BBB. *B. Baird¹, M. MazloumiBakhshayesh¹, J. R. Carter¹, J. L. Moreno¹, A. Schuller², A. Briggs², M. Hager², M. Olewine³, E. Barr¹, J. G. Begay¹, S. Noor¹, and M. J. Campen¹.* ¹University of New Mexico, Albuquerque, NM; ²Colorado State University, Fort Collins, CO; and ³University of California Los Angeles, Los Angeles, CA.

- #3792 **Poster Board Number** C238
Wildfire Smoke-Induced Neurotoxicity and the Role of Ovarian Hormone Signaling.
K. E. Zychowski, S. Yazzie, E. Lim, M. Oh, T. Vue, E. Prossnitz, S. Leng, and J. Gillette. University of New Mexico, Albuquerque, NM.
- #3793 **Poster Board Number** C239
Disrupted GABAergic Signaling and Microglial Activation Underlie Behavioral Disinhibition in a Preclinical Model of Gulf War Illness. *A. Trivedi, S. Roy, M. More, S. Sarkar, R. Kumar, and S. Chatterjee.* University of California, Irvine, Irvine, CA.
- #3794 **Poster Board Number** C240
Sex-independent dopaminergic and region-specific amino acid neurotransmitter dysregulation across brain regions in two Gulf War Illness mouse models. *T. P. Kalinowski¹, B. T. Hudson¹, J. M. Carpenter¹, F. Tejedor-Rojas¹, J. J. Wagner¹, D. A. Harn¹, T. Norberg², and N. M. Filipov¹.* ¹University of Georgia, Athens, GA; and ²Uppsala University, Uppsala, Sweden.
- #3795 **Poster Board Number** C241
Human-relevant PCB52 metabolites trigger mitochondria-dependent bioenergetic collapse in glia. *M. A. García-Marèš¹, S. E. Preston¹, H. M. McMurrin¹, L. E. Dean², H. J. Lehmler², and J. A. Doorn¹.* ¹University of Iowa College of Pharmacy, Iowa City, IA; and ²University of Iowa College of Public Health, Iowa City, IA.
- #3796 **Poster Board Number** C242
Effect of silver nanoparticle related cytokine storm on neurons in insulin resistance state. *A. Engin¹, F. Lebre², E. Alfaro-Moreno², O. Alp³, E. Engin⁴, and A. Engin⁵.* ¹Gazi University, Faculty of Pharmacy, Department of Toxicology, Ankara, Turkey; ²International Iberian Nanotechnology Laboratory, Nanosafety Group, Braga, Portugal; ³Gazi University, Faculty of Pharmacy, Department of Analytical Chemistry, Ankara, Turkey; ⁴Dokuz Eylul University, Faculty of Medicine, Department of Microbiology, Izmir, Turkey; and ⁵Gazi University, Faculty of Medicine, Department of General Surgery, Ankara, Turkey.
- #3797 **Poster Board Number** C243
Acute neurotoxic effects of plastic antioxidant degradation products in rat cortical neurons. *H. Kang^{1,2}, and R. H. Westerink².* ¹LyondellBasell, Rotterdam, Netherlands; and ²Division of Toxicology, Faculty of Veterinary Medicine, Institute for Risk Assessment Sciences (IRAS), Utrecht University, Utrecht, Netherlands.
- #3798 **Poster Board Number** C244
A Human iPSC-Based Platform for Functional Toxicity Screening of CNS-Targeted RNA Therapeutics. *K. Pitsa, J. Koepke, B. Samson-Couterie, S. Schwengberg, T. Smith, and S. Jain.* Ncardia, Leiden, Netherlands.
- #3799 **Poster Board Number** C245
Cyclopiazonic acid downregulates oxidative stress-related genes in SH-SY5Y human neuroblastoma cells. *C. Martínez-Alonso, M. Ruiz, and Y. Rodríguez Carrasco.* Faculty of Pharmacy. University of Valencia, Burjassot-Valencia, Spain. Sponsor: *A. Anadón*
- #3800 **Poster Board Number** C246
Evaluation of pesticide- and mycotoxin-induced cytotoxicity in differentiated SH-SY5Y spheroids using a reproducible 3D microchip model. *F. Franco-Campos, M. Taroncher, Y. Rodríguez-Carrasco, and M. Ruiz.* Faculty of Pharmacy. University of Valencia, Burjassot-Valencia, Spain. Sponsor: *A. Anadón*
- #3801 **Poster Board Number** C247
Deoxynivalenol induces apoptosis through mitochondrial dysfunction in a 3D model of SH-SY5Y neural spheroids. *M. Sánchez, J. Tolosa, and M. Ruiz.* Faculty of Pharmacy. University of Valencia, Burjassot-Valencia, Spain. Sponsor: *A. Anadón*

- #3802 **Poster Board Number** C248
Effects of brevetoxin exposure on zebrafish novel object recognition capabilities.
M. Hammontree, H. Paz, A. Stafford, and W. Hayes. Florida College, Temple Terrace, FL.
- #3803 **Poster Board Number** C249
Zebrafish behavioral profiling as a tool for neuroactivity and neurotoxicity prediction.
P. C. Santos¹, E. Bianchi¹, C. Koenig¹, A. Tolpin¹, and M. McCarroll². ¹Corteva Agriscience, Indianapolis, IN; and ²University of California San Francisco, San Francisco, CA.
- #3804 **Poster Board Number** C250
Stimulatory Effects of Alcohol in As3MT Knockout Mice. M. Hernández, G. A. Picha, N. D. Morford-Oberst, A. M. Barkley-Levenson, and S. Medina. University of New Mexico, Albuquerque, NM.
- #3805 **Poster Board Number** C251
Cytochrome C Oxidase activity across the brain following acute hydrogen sulfide toxicity in mice. D. Kim, A. Miller, and W. K. Rumbelha. University of California Davis, Davis, CA.
- #3806 **Poster Board Number** C252
Correlation of Brain MRI Alterations with Histopathologic Changes in a Cynomolgus Monkey with Cytokine Release Syndrome. A. Goto¹, A. Sumiyoshi², Y. Nogami¹, Y. Nagayama¹, E. Ota¹, and S. Asakura¹. ¹Eisai Co., Ltd., Ibaraki, Japan; and ²National Institutes for Quantum Science and Technology, Chiba, Japan. Sponsor: A. Goto, Japanese Society of Toxicology
- #3807 **Poster Board Number** C253
Development of Novel Aminopyridines for Safe and Effective Treatment of Peripheral Neurological Disorders. S. Ahmad, W. McClintic, A. Bollapragada, B. Gregg, A. B. Stone, S. W. O'Brien, A. R. Jacobson, and P. M. McNutt. Wake Forest Institute for Regenerative Medicine, Winston Salem, NC.
- #3808 **Poster Board Number** C254
A Comprehensive *In Vitro* Six-Cell Human NVU Model for Coupled Evaluation of BBB Function, Immune Response, CNS exposure, and Neurotoxicity. Z. Xu¹, G. Coomes¹, J. P. Sluka², and G. Knipp¹. ¹Purdue University, West Lafayette, IN; and ²Indiana University, Bloomington, IN.
- #3809 **Poster Board Number** C255
Scalable and well-defined human CNS co-culture platforms suitable for modelling excitatory-inhibitory neuron imbalances in drug discovery and safety studies.
T. Harris-Brown¹, T. Oosterveen¹, M. Rios de Anda¹, T. Tatar Ozkan¹, S. Hussain¹, A. Veteleanu¹, S. Milde¹, M. Iovino², D. Magnani², R. Northeast¹, I. Ferreira¹, A. Turner¹, and W. Bernard¹. ¹bit. bio, Cambridge, United Kingdom; and ²Charles River Laboratories, Chesterford, United Kingdom. Sponsor: T. Harris-Brown, Safety Pharmacology Society
- #3810 **Poster Board Number** C256
Phenotypic Screening Platforms for Neurotoxicity and Neurorepair in CNS Drug Safety Assessment. J. Esselink, G. Mahe, M. Hembury, D. K. Ketskemety, M. Pliegocaballero, M. B. Torroba, J. van Offenbeek, K. Lo, C. Loomans, M. Musters, M. Bsibsi, L. Ritsma, L. Buti, A. van Marle, S. de Munnik, M. Vlaming, and P. I. Racz. Charles River Laboratories, Leiden, Netherlands.
- #3811 **Poster Board Number** C257
Assessing the neurotoxic and cardiotoxic potential of botanical extracts using microelectrode array (MEA) recordings. R. G. van Kleef¹, P. J. Wopken¹, J. Krzykwa², C. A. Mitchell², and R. H. Westerink¹. ¹Utrecht University, Utrecht, Netherlands; and ²Health and Environmental Sciences Institute, Washington, DC.

- #3812 **Poster Board Number** C258
Comparative Biodistribution of an Antisense Oligonucleotide following Intrathecal Administration via Three Injection Techniques in Rats. C. Voyer¹, S. Cinquino¹, and T. Fang².
¹Charles River Laboratories, Senneville, QC, Canada; and ²Trace Neuroscience, South San Francisco, CA. Sponsor: *M. Vezina*
- #3813 **Poster Board Number** C259
Antioxidant Effects of Partridgeberry Leaf Extract against Perfluorooctanesulfonic Acid (PFOS) and Methylmercury in *Caenorhabditis elegans*. O. M. Marsanskis. University of Maine, Orono, ME. Sponsor: *J. Newell-Caito*
- #3814 **Poster Board Number** C260
Curating Developmental Neurotoxicity in the Toxicity Reference Database (ToxRefDB). *M. Feshuk*¹, *S. Watford*², *K. Paul Friedman*¹, and *K. Carstens*¹. ¹US EPA/OCSP, Research Triangle Park, NC; and ²former US EPA/ORD, Research Triangle Park, NC.
- #3815 **Poster Board Number** C261
High-Throughput Cytokine Detection Platform for Evaluation of Chemical Induced Microglial Activation. *S. Yang*¹, *K. Carstens*², *I. Ipaye*¹, *X. Chen*¹, *H. Hogberg*³, *N. Kleinstreuer*³, *T. Knudsen*⁴, and *M. Xia*¹. ¹NIH/NCATS, Rockville, MD; ²EPA, Research Triangle Park, NC; ³NIH/NIEHS, Research Triangle Park, NC; and ⁴Indiana University, Bloomington, IN.

Tuesday, March 24, 1:45 PM to 4:15 PM, Exhibit Hall B, Convention Center

PS Poster Session: Reproductive Toxicology II

Chair(s): Lizzie Bowdridge, West Virginia University; and Connie Chen, HESI.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 1:45 PM–4:15 PM

Abstract #

- #3816 **Poster Board Number** D264
Reducing animal use in rat fertility studies through use of historical control data and statistical methods. *N. R. Catlin*, *D. Li*, *T. Tran*, *C. M. Stethem*, *S. N. Campion*, and *C. J. Bowman*. Pfizer Inc, Groton, CT.
- #3817 **Poster Board Number** D265
Ovarian Toxicity of Benzyl Paraben and Butyl Paraben. *C. Potts*, *A. Chowdury*, *R. Reynolds*, *V. Malty*, *S. Martinez*, *H. Alahmadi*, and *G. Warner*. New Jersey Institute of Technology, Newark, NJ.
- #3818 **Poster Board Number** D266
The Effects of Short-term Exposure to Di-(2-ethylhexyl) phthalate (DEHP) and Diisononyl phthalate (DiNP) on Markers of Female Reproductive Aging. *R. E. Santacruz-Márquez*, *V. A. Salgado*, *M. J. Laws*, and *J. A. Flaws*. University of Illinois Urbana Champaign, Urbana, IL.
- #3819 **Poster Board Number** D267
Molecular Characterization of Stromal Collagen, Apoptosis, and Cell Proliferation Pathways in The Prostate of Rats Chronically Exposed to an Environmentally Relevant Mixture of Endocrine Disrupting Chemicals. *T. Cavalleri Sousa*¹, *K. Delalibera Hinokuma*¹, *V. de Oliveira Pinaffi*¹, *P. H. Peres Junior*¹, *M. I. Galiciani Pedro Fernandes*¹, *A. J. Molero Flores*¹, *A. C. de Souza Castilho*¹, *W. R. Scarano*², *J. A. Flaws*³, and *L. de Oliveira Mendes*¹. ¹University of Western São Paulo, Presidente Prudente, SP, Brazil; ²Institute of Biosciences - São Paulo State University, Botucatu, SP, Brazil; and ³University of Illinois Urbana-Champaign, Urbana, IL.

- #3820 **Poster Board Number D268**
Phthalate Replacements Show Similar Effects as Phthalates on Gene Expression and Hormone Production in Mouse Ovarian Follicles. R. Reynolds, C. Potts, W. Bari, and G. Warner. New Jersey Institute of Technology, Newark, NJ.
- #3821 **Poster Board Number D269**
Evaluation of Data Inclusion of Dams with No Viable Fetuses in Maternal Data Analysis in Rat Embryo-Fetal Development Studies. C. Zhou, D. Harischandra, and P. B. Bushdid. Labcorp, Greenfield, IN.
- #3822 **Poster Board Number D270**
Investigating the Direct Effects of Phthalates on the Vaginal Microenvironment. A. C. Elkins¹, P. C. Powell¹, H. C. Zierden², and K. D. Rock¹. ¹Clemson University, Clemson, SC; and ²University of Maryland, College Park, MD.
- #3823 **Poster Board Number D271**
Polycyclic Aromatic Hydrocarbons Disrupt Placental Gene Regulation in a Sex-Dependent Manner. K. Lingappan¹, A. Cantu¹, M. Hu², B. Moorthy², and M. Suter². ¹Children's Hospital of Philadelphia, Philadelphia, PA; and ²Baylor College of Medicine, Houston, TX.
- #3824 **Poster Board Number D272**
The Current Situation in Development and Reproductive Toxicity Evaluation of Pharmaceuticals using Non-Human Primates in Japan. Y. Hoshino, A. Takasu, G. Higashiyama, and F. Mikashima. Pharmaceuticals and Medical Devices Agency, Chiyoda-ku, Tokyo, Japan. Sponsor: Y. Hoshino, Japanese Society of Toxicology
- #3825 **Poster Board Number D273**
From Development to Ovarian Failure How the Tobacco Smoke Chemical Benzo[a]pyrene Disrupts Egg Quality in Mice. K. N. Leon Parada, N. Vaddella, and U. Luderer. University of California, Irvine, Irvine, CA.
- #3826 **Poster Board Number D274**
Chronic exposure to selenium through natural diets causes endocrine disruption and reproductive toxicity in zebrafish (*Danio rerio*): a trophic transfer study. M. Uddin¹, J. Ritu¹, S. Niyogi^{1,2}, and D. P. Chivers¹. ¹University of Saskatchewan, Saskatoon, SK, Canada; and ²Toxicology Centre, University of Saskatchewan, Saskatoon, SK, Canada. Sponsor: S. Niyogi, Society of Environmental Toxicology and Chemistry
- #3827 **Poster Board Number D275**
Parental and Postnatal NDMA Exposure Alters Reproductive and Toxicological Profiles in F1 Rats. A. Arena, J. Stein, L. Nagaoka, R. Castro, G. Rosalem, J. Aquino, J. Tavares, O. Vitale, G. Marraschi, S. Santos, L. Magalhães, B. Manoel, and B. Jorge. Unesp, Botucatu, Brazil. Sponsor: W. Scarano
- #3828 **Poster Board Number D276**
Comparative Toxicogenomics Database Analysis: Relevant Environmental Toxicant Mixtures and Preeclampsia. B. Pace, J. Meeker, and S. Harris. University of Michigan, Ann Arbor, MI.
- #3829 **Poster Board Number D277**
Effect of *in Utero* Exposure to the Cannabis Compounds Tetrahydrocannabinol (THC) and Cannabidiol (CBD) on the Developing Fetal Gonads. F. A. Luna, H. Avalos, J. Lim, and U. Luderer. University of California, Irvine, Irvine, CA.

- #3830 **Poster Board Number D278**
Microplastic Accumulation in Mammalian Reproductive Tissues: Comparative Evidence from Domestic Dogs and Human Semen. C. J. Hu¹, M. Garcia¹, A. Nihart¹, L. Yin², H. Collins³, J. Thompson³, G. Smith⁴, E. Clarke⁵, M. Campen¹, and X. J. Yu¹. ¹University of New Mexico, Albuquerque, NM; ²ReproTox Biotech, Albuquerque, NM; ³Fertility Center of New Mexico, Albuquerque, NM; ⁴University of Michigan Medical School, Ann Arbor, MI; and ⁵CABQ Animal Welfare Department, Albuquerque, NM.
- #3831 **Poster Board Number D279**
Co-exposure to Polystyrene Nanoplastics and Phthalate Metabolites Mixture Disrupts Ovarian Cell Cycle and Oxidative Balance in Neonatal Ovaries *In Vitro*: A DOHaD Perspective. P. Souza¹, R. Santacruz Márquez², M. Laws², J. Flaws², and W. Scarano¹. ¹São Paulo State University - UNESP, Botucatu, Brazil; and ²University of Illinois Urbana-Champaign, Urbana, IL.
- #3832 **Poster Board Number D280**
Long term exposures to di(2-ethylhexyl) phthalate and diisononyl phthalate alter the Nrf2 signaling pathway in the mouse ovary. Z. C. Inman, T. Seaton, A. Fields, M. Laws, and J. A. Flaws. University of Illinois Urbana-Champaign, Urbana, IL.
- #3833 **Poster Board Number D281**
Febuxostat Has A Protective Effect On Maternal Nano-Titanium Dioxide Inhalation Induced Placental Glycogen Changes in Female Pups. A. Dunn. West Virginia University, Morgantown, WV.
- #3834 **Poster Board Number D282**
Alterations in early embryonic development by exposure to the pesticide temephos in male rats. A. Curbelo-Valiente¹, G. M. Moreno-Bustamante¹, M. J. Solis-Heredia¹, F. O. Casillas², and B. Quintanilla-Vega¹. ¹Cinvestav, Mexico City, Mexico; and ²Metropolitan Autonomous University (UAM) Iztapalapa Unit, Mexico City, Mexico.
- #3835 **Poster Board Number D283**
Exposure to a Phthalate Mixture Decreases Ovulation Rates, Impairs Steroidogenesis, and Alters Angiogenesis *In Vivo*. B. A. Williams, S. M. Ghuneim, K. L. Land, C. V. Harper, E. T. Hayden, S. S. Sherlock, M. M. Wilson, and P. R. Hannon. University of Kentucky, Lexington, KY.
- #3836 **Poster Board Number D284**
A weight-of-evidence review of the toxicological and epidemiological literature of the reproductive and developmental hazard of vinyl chloride monomer. M. L. Kreider¹, H. L. Fairbanks¹, L. R. Lautermilch¹, R. D. Righter², A. M. Urban³, L. P. Marshall⁴, and O. A. Adebambo¹. ¹Stantec, Pittsburgh, PA; ²Stantec, Portland, ME; ³Stantec (formerly), San Francisco, CA; and ⁴Valeo Sciences, Pittsburgh, PA.
- #3837 **Poster Board Number D285**
Environmental pollutants during pregnancy: phthalates and nanoplastics alter gut microbiota and intestinal morphology in pregnant rats. N. Magosso, I. Fávaro, P. Souza, M. Moreira, V. Rocha, M. Fioretto, and W. Scarano. São Paulo State University - UNESP, Botucatu, Brazil.
- #3838 **Poster Board Number D286**
Single-Nucleus RNA-seq Reveals Cell-Type-Specific Transcriptional Alterations in the Ovary After Adolescent Per- and Polyfluoroalkyl Substances (PFAS) Mixture Exposure. R. A. Ghorab¹, B. Nolan¹, C. Lee¹, J. W. George², M. Rowley¹, and K. L. Clark^{1,3}. ¹University of Nebraska Medical Center, Omaha, NE; ²University of Minnesota Genomics Center, Minneapolis, MN; and ³Veterans Affairs Nebraska-Western Iowa Health Care System, Omaha, NE.
- #3839 **Poster Board Number D287**
Chronic Exposure of Mice to Propylparaben Disrupts Hormone Signaling and Promotes Fibrosis in the Uterus. P. Volety, A. Kannan, M. Arshee, R. Shukla, J. Li, A. Chandola, M. K. Bagchi, A. Ziv-Gal, and I. C. Bagchi. University of Illinois at Urbana-Champaign, Champaign, IL.

- #3840 **Poster Board Number** D288
From *In Silico* Prediction to *In Vitro* Validation: Kaempferol Mitigates Perfluorodecanoic acid (PFDA)-Induced Granulosa Cell Toxicity. C. Lee¹, R. A. Ghorab¹, K. E. Taylor¹, and K. L. Clark^{1,2}. ¹University of Nebraska Medical Center, Omaha, NE; and ²Veterans Affairs Nebraska-Western Iowa Health Care System, Omaha, NE.
- #3841 **Poster Board Number** D289
Reproductive and Developmental Toxicity Assessment of Fragrance Ingredients: Considerations for Reprotoxic Classification in the Context of Maternal Toxicity. K. Assanome¹, I. Brown², V. Rocha¹, and G. Adamson¹. ¹Givaudan Fragrances Corporation, East Hanover, NJ; and ²Department of Pharmacology and Toxicology, Michigan State University, East Lansing, MI.
- #3842 **Poster Board Number** D290
Sex differences in gonadal toxicity of exposure to fine particulate matter (PM_{2.5}). J. Lim, C. Nealon, S. Kotthru, F. Luna, C. Lim, D. Herman, M. Kitazawa, M. T. Kleinman, and U. Luderer. University of California Irvine, Irvine, CA.
- #3843 **Poster Board Number** D291
Perinatal E-Cigarette Exposure and Maternal-Fetal Distribution of Nicotine and Its Metabolites. G. Chandan¹, C. Yu¹, R. Sakurai¹, J. Liu¹, D. Hatai¹, Y. Wang¹, A. Gour², A. Sharma², and V. K. Rehan¹. ¹Lundquist Institute, Torrance, CA; and ²University of Florida, Gainesville, FL. Sponsor: D. Hatai
- #3844 **Poster Board Number** D292
Chronic PFUnA exposure induces liver hypertrophy in CD-1 mice. M. A. Watt, O. Avenbuan, E. Mattingly, T. Tzendzalian, F. Li, and R. C. Fry. University of North Carolina- Chapel Hill, Chapel Hill, NC.
- #3845 **Poster Board Number** D293
CONFOUNDING OF REPRODUCTION ENDPOINTS BY UNDERNUTRITION: A CASE-STUDY. M. McMahon. Penman Consulting Limited, Wantage, United Kingdom.
- #3846 **Poster Board Number** D294
Overcoming the DART Assessment Bottleneck in Transgenic Mice: Study Design Strategies Informed by Historical Control Data. Y. Hu, Y. Zhang, L. Zhang, and J. Ma. JOINN Laboratories, Suzhou, China.

Tuesday, March 24, 9:15 AM to 11:45 AM, Exhibit Hall B, Convention Center

PS Poster Session: Animal Models

Chair(s): Werner Frings, Merck Healthcare KGaA, Germany; and Chris Migliaccio, University of Montana.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 9:15 AM–11:45 AM

Abstract #

- #3848 **Poster Board Number** D300
The Importance of Species Selection in Drug Discovery and Development. M. Nedelman¹, and B. Collier². ¹ANEWCRO, LLC., Fort Myers, FL; and ²Rockefeller University, New York City, NY. Sponsor: G. Gagnon

- #3849 **Poster Board Number D301**
Timing of Artifactual Erythrocyte Morphologic Changes Associated with Storage of Blood in Common Laboratory Animal Species. L. Wiczorkiewicz, M. Mogenson, A. Haldeman, and M. Meindel. Labcorp, Madison, WI. Sponsor: B. Chanas
- #3850 **Poster Board Number D302**
Lacrimal gland measurements in most common preclinical laboratory animals. S. Iwabe, B. Ossont, N. Jordan, and M. Bacellar-Galdino. Altasciences, Scott Township, PA. Sponsor: N. Makori
- #3851 **Poster Board Number D303**
Histopathological Assessment of Purkinje cells in the Cerebellum of Japanese Medaka (*Oryzias latipes*) Fish Exposed to Graphene Oxide. A. K. Dasmahapatra¹, and P. B. Tchounwou². ¹University of Mississippi, University, MS; and ²Morgan State University, Baltimore, MD.
- #3852 **Poster Board Number D304**
Risks of Microplastic Exposure for Vertebrate Immunity: Insights from *Xenopus*. J. Robert, F. De Jesus Andino, R. Lombardo, A. Gurcan, J. L. McGrath, E. Najafi-Majd, and R. Onuma. University of Rochester School of Medicine & Dentistry, Rochester, NY.
- #3853 **Poster Board Number D305**
Insights into Sleep Architecture and EEG Spectral Profiles During Postoperative Recovery in Group-Housed Mice. M. Girand, T. Velie, J. Van Hee, K. Nichols, K. White, and J. Alvarez. Harvard Bioscience, Holliston, MA. Sponsor: M. Girand, Safety Pharmacology Society
- #3854 **Poster Board Number D306**
Evaluation of blue light exposure from LED lighting on lifespan and sleep in mice. K. Okamura, M. Sato, and K. Nohara. National Institute for Environmental Studies, Tsukuba, Japan.
- #3855 **Poster Board Number D307**
Investigating the Role of the Aryl Hydrocarbon Receptor in Diet-Modulated Energy Metabolism and Weight Regulation in Male Mice. A. Bathina¹, J. Hakanen¹, A. Doka¹, J. Linden¹, S. Unniappan², A. Raasmaja¹, and R. Pohjanvirta¹. ¹University of Helsinki, Helsinki, Finland; and ²University of Saskatchewan, Saskatoon, SK, Canada. Sponsor: R. POHJANVIRTA, EUROTOX
- #3856 **Poster Board Number D308**
Loss of the Suppressor of Cytokine Signaling 1 (SOCS1) leads to progressive systemic inflammation in a SOCS1 inducible knockout adult mouse model. S. Moore, S. Zhu, C. Zhang, J. Price, V. Bhaskaran, I. Kim, R. Smith, and K. Augustine. Bristol Myers Squibb, Lawrenceville, NJ.
- #3857 **Poster Board Number D309**
Characterization of On-Target Toxicity in Inducible BLIMP-1 Knockout Mice. J. Maye¹, R. Smith¹, I. Kim¹, K. Granaldi¹, X. Li¹, X. Huang², J. Burns¹, J. Augusma¹, V. Bhaskaran¹, K. DiPetrillo³, J. Loy⁴, L. Armstrong¹, P. Levesque¹, and A. Rizzolo¹. ¹Bristol Myers Squibb, Lawrenceville, NJ; ²Bristol Myers Squibb, San Diego, CA; ³Bristol Myers Squibb, New Brunswick, NJ; and ⁴Bristol Myers Squibb, Cambridge, MA.
- #3858 **Poster Board Number D310**
Establishment of a mouse model of ischemic stroke and recurrence for preclinical studies. C. Wu¹, S. Liu², and C. Chen². ¹China Medical University, Taichung, Taiwan; and ²National Taiwan University, Taipei, Taiwan.
- #3859 **Poster Board Number D311**
Development and validation of a repeated exposure elastase-induced murine model for COPD and acute exacerbation of COPD. M. P. Cooper¹, Y. Li², C. Monge², A. Razazan², O. Oyewole², and S. Hussain^{2,3}. ¹Department of Microbiology, Immunology and Cell Biology, WVU, Morgantown, WV; ²Department of Physiology, Pharmacology & Toxicology, WVU, Morgantown, WV; and ³Centre for Inhalation Toxicology (iTOX), West Virginia University, School of Medicine, Morgantown, WV.

- #3860 **Poster Board Number D312**
Identification of Liver-Specific Extracellular Vesicle (EV) RNAs as Biomarkers of Hepatotoxicity in CD9-EGFP Reporter Mice. R. Ono¹, M. Naruse², M. Kuwagata¹, Y. Yoshioka³, S. Kitajima¹, Y. Hirabayashi¹, T. Ochiya³, M. Ikawa⁴, and T. Yamada¹. ¹National Institute of Health Sciences (NIHS), Kawasaki, Japan; ²National Institute of Infectious Diseases, Tokyo, Japan; ³Tokyo Medical University, Tokyo, Japan; and ⁴Osaka University, Suita, Japan.
- #3861 **Poster Board Number D313**
A Machine-Learning Virtual Histology Tool Reduces Animal Use and Captures Injury Dynamics in Toxicology Studies. C. Humphries, J. A. Cartwright, S. J. Forbes, and J. W. Dear. University of Edinburgh, Edinburgh, United Kingdom.
- #3862 **Poster Board Number D314**
Modulatory effects of glutamate transporter enhancers in alcohol-related liver injury in alcohol preferring rats. A. Alotaibi¹, K. Bhowmik¹, V. Kumar¹, M. AbouGharbia², W. Childers², and Y. Sari¹. ¹The University of Toledo, College of Pharmacy and Pharmaceutical Sciences, Toledo, OH; and ²Temple University, Philadelphia, PA. Sponsor: J. Wise
- #3863 **Poster Board Number D315**
Cytological Composition of Bone Marrow in Athymic Nude RH-FoxN1^{nu} Rats. M. Defontis¹, R. Fares², and A. Bidaut². ¹Tox and Diag, St Germain Nuelles, France; and ²ERBC, Baugy, France. Sponsor: R. Fares, American College of Toxicology
- #3864 **Poster Board Number D316**
Interaction between pyrethroid exposure and Shank3 genotype on neurodevelopmental disorder-relevant behaviors in prairie voles. R. Shah. University of Toledo College of Medicine and Life Sciences, Toledo, OH. Sponsor: J. Burkett
- #3865 **Poster Board Number D317**
A comparative study of ocular anatomy in 3 different laboratory Swine strains. M. Bacellar-Galdino¹, N. Jordan¹, B. Ossont¹, D. Brocksmith², G. Bouchard², A. Walz¹, and S. Iwabe¹. ¹Altasciences Preclinical, Scott Twp, PA; and ²Sinclair Bio Resources LLC, Auxvasse, MO. Sponsor: N. Makori
- #3866 **Poster Board Number D318**
Comparative Assessment of Oral Gavage, Intravenous, and Subcutaneous Dosing Routes on Maternal Body Weight and Food Consumption in Rabbit Embryo-Fetal Development Studies. Y. Pu, D. Harischandra, and P. Bushdid. Labcorp, Greenfield, IN. Sponsor: S. Xiao
- #3867 **Poster Board Number D319**
Cytological Bone Marrow Cell Differential Counts and Morphological Findings in the Common Marmoset (*Callithrix jacchus*). M. Defontis¹, A. Bidaut², and R. Fares². ¹Tox and Diag, St Germain Nuelles, France; and ²ERBC, Baugy, France.
- #3868 **Poster Board Number D320**
Comparison of baseline levels of biomarkers commonly used to assess drug candidate safety, efficacy, and mechanism of action in Cynomolgus Monkeys of Cambodian, Chinese, or Cambodian-Chinese Mixed Origin bred in a US-based Research Facility. A. K. Mahoney¹, M. Strenge², T. Arndt², R. Matteo¹, F. Barone¹, and N. Makori². ¹ALTASCIENCES, Sacramento, CA; and ²ALTASCIENCES, Seattle, WA.
- #3869 **Poster Board Number D321**
African Green Monkey Nonhuman Primate Periodontal Exam Scoring System (NHP-PESS). K. Cruz¹, M. Lawrence¹, A. Pemberton¹, S. Korte¹, and A. Murti². ¹Virscio, New Haven, CT; and ²Research Animal Resources John's Hopkins University, New York, NY.

- #3870 **Poster Board Number D322**
Novel Cervical Hemicontusion Spinal Cord Injury Model in African Green Monkeys.
 E. Sinopoulou¹, M. Lawrence², S. Korte², E. Oyarzabal², R. Hancock², R. Pike², C. Anselm²,
 M. O'Connor², M. Tuszyński¹, and C. Sparrey³. ¹Centrer for Neural Repair, Biomedical Research
 Facility 2, University of California San Diego, La Jolla, CA; ²Virscio, New Haven, CT; and ³Mechatronic
 Systems Engineering, Neurospine Lab, Simon Fraser University, Surrey, DC, Canada.
- #3871 **Poster Board Number D323**
Spondylosis and intervertebral disc degeneration in African green monkeys (*Chorocebus*
***sabaeus*).** E. Hines, S. Korte, M. Lawrence, and I. Mikaelian. Virscio, New Haven, CT.
- #3872 **Poster Board Number D324**
Male rhesus macaques fed a Western diet are susceptible to bone loss caused by
both chronic binge alcohol and infection with simian immunodeficiency virus with
subsequent antiretroviral therapy. M. Ronis¹, K. Pedersen¹, L. Suva², M. Bordelon¹, L. Simon¹,
 and P. Molina¹. ¹Louisiana State University Health Sciences Center, New Orleans, LA; and ²Texas
 A&M University, College Station, TX.

Tuesday, March 24, 9:15 AM to 11:45 AM, Exhibit Hall B, Convention Center

PS Poster Session: PFAS I

Chair(s): Kaylyn Dinh, Texas A&M University; and Neha Gowadia, Jacobs.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 9:15 AM–11:45 AM

Abstract #

- #3873 **Poster Board Number D326**
Perfluorooctanesulfonamide-induced epiboly delay is associated with decreased ATP
production within zebrafish embryos. J. Hoang, N. Jimenez, K. Faizi, Q. Xiang, E. Fencel, R. Yates,
 J. Gan, and D. Volz. University of California Riverside, Riverside, CA.
- #3874 **Poster Board Number D327**
Perfluorononanoic acid (PFNA) causes hepatomegaly while inhibiting hepatocyte
proliferation independently of PPAR α and CAR in mice. X. Yu, X. Cheng, and P. Bu. St. John's
 University, Jamaica, NY.
- #3875 **Poster Board Number D328**
Preserved but Not Lost: Quantifying PFAS in Formalin-Fixed and Paraffin-Embedded
Tissues for Retrospective Exposure and Dose Assessment. K. Biswas¹, J. Schlezinger², A. Bello¹,
 and D. Bello¹. ¹University of Massachusetts Lowell, Lowell, MA; and ²Boston University, Boston, MA.
- #3876 **Poster Board Number D329**
Perfluorooctanoic Acid and Trifluoroacetic Acid Exposure Impacts Doxorubicin Uptake
and Doxorubicin-Induced DNA Damage Repair in Mammalian Liver and Ovary Cells.
 E. E. Tobin¹, S. Gaddameedhi^{1,2}, and N. Kotlarz^{1,2,3}. ¹Toxicology Graduate Program, North Carolina
 State University, Raleigh, NC; ²Center for Human Health and the Environment, Raleigh, NC;
 and ³Civil, Construction, and Environmental Engineering Dept, North Carolina State University,
 Raleigh, NC.
- #3877 **Poster Board Number D330**
Investigating the neurodevelopmental effects of PFAS mixtures in a chicken embryo
model. J. Vo, and S. McLarnan. Hamline University, St Paul, MN.

#3878	Poster Board Number D331 Evaluating the Effects of Environmentally Relevant PFAS Mixtures on Human Cell Viability and Mitochondrial Density. S. Mohamoud, and S. McLarnan. Hamline University, St. Paul, MN.
#3879	Poster Board Number D332 Impact of PFAS on Prostate Cancer Metabolism. C. R. Clayton ^{1,2} . ¹ University of Illinois Urbana-Champaign, Urbana, IL; and ² King University, Bristol, TN.
#3880	Poster Board Number D333 Per- and Polyfluoroalkyl Substances in Enterohepatic Bile Acid Homeostasis. T. Troncoso ¹ , B. Kong ¹ , S. Hong ^{1,2} , V. Basaly ¹ , J. Zhang ¹ , S. Xiao ¹ , and G. L. Guo ¹ . ¹ Rutgers, The State University of New Jersey, Piscataway, NJ; and ² Sun Yat-Sen University, Guangzhou, China.
#3881	Poster Board Number D334 Cardiac Remodeling as a Novel Target of Short-Chain PFAS Toxicity. E. C. Wittenborn, J. Roberson, A. Lopez-Ramirez, X. Wu, and T. L. Woodlief. East Carolina University, Greenville, NC.
#3882	Poster Board Number D335 Comparative Effects of Per-and Polyfluoroalkyl Substances Exposure on Lifespan and DJR-1 Expression in <i>Caenorhabditis elegans</i>. J. Barkley, D. Payton, and C. A. Dodd. Fort Valley State University, Fort Valley, GA.
#3883	Poster Board Number D336 Assessment of Developmental and Endocrine Pancreatic Toxicity of Aqueous Film Forming Foams (AFFF) in Larval Zebrafish (<i>Danio rerio</i>) and its Potential Modulation by the Nrf2 Pathway. A. Lachapelle ¹ , K. M. Satbhai ² , and A. R. Timme-Laragy ² . ¹ Department of Biochemistry and Molecular Biology, University of Massachusetts Amherst, Amherst, MA; and ² Department of Environmental Health Sciences, University of Massachusetts Amherst, Amherst, MA.
#3884	Poster Board Number D337 The Effect of PFAS on Microbial Communities in South Carolina Estuaries of Varying Urbanization. R. Dotson, and Z. Padgett. Clemson University, Clemson, SC.
#3885	Poster Board Number D338 Unveiling PFAS-Induced Cardiovascular Endothelial Toxicity: Differential DNA Damage and Oxidative Stress Responses. N. Nguyen ¹ , S. Sharma ² , M. Meister ² , and C. Wright ² . ¹ University of Massachusetts-Amherst, Amherst, MA; and ² Chemical Insights Research Institute, UL Research Institutes, Marietta, GA.
#3886	Poster Board Number D339 Low-dose PFAS Exposure Disrupts ABC and OATP Transporter Activity in Human Cell-based Models. G. E. Collier, and R. Lavado. Baylor University, Waco, TX.
#3887	Poster Board Number D340 Integrative Multi-Scale Approach Using Zebrafish Transcriptomics and Molecular Docking to Determine the Sulfonamide-Specific Mechanisms of Developmental Toxicity of Four-Carbon PFAS. E. M. Cowan, S. J. Carrell, L. Truong, and R. L. Tanguay. Oregon State University, Corvallis, OR.
#3888	Poster Board Number D341 PFAS Terminology and Fit-For-Purpose Risk-Based Grouping. B. J. Henry ¹ , and B. Ameduri ² . ¹ Toxicology Consultant, Havre de Grace, MD; and ² ICGM, University Montpellier, Montpellier, France.
#3889	Poster Board Number D342 Environmental Monitoring of PFAS in Himachal Pradesh: Contamination Levels and Human Health Implications. N. Verma, and N. Singh. Chitkara University, Himachal Pradesh, Baddi, India.

- #3890 **Poster Board Number D343**
Astrocyte Dysfunction as a Mechanism of PFAS-Induced Neurotoxicity: Implications for Neuroinflammation and Neurodegeneration. J. Xie, H. Zhao, S. Wu, J. L. Freeman, and C. Yuan. Purdue University, West Lafayette, IN.
- #3891 **Poster Board Number D344**
Impact of Developmental Exposure to Environmentally Relevant Levels of PFAS and PFAS Mixtures on Multi-tissue Transcriptomic Profiles in Adult Zebrafish. A. Meyers¹, D. Meyer¹, A. Haimbaugh^{2,3}, M. Connell^{1,2}, B. Vo¹, A. Guarino¹, E. Cavaneau¹, G. Winny¹, C. Wu², and T. Baker¹. ¹University of Florida, Gainesville, FL; ²Wayne State University, Detroit, MI; and ³University of Colorado, Aurora, CO.
- #3892 **Poster Board Number D345**
Characterization of PFAS in Vermont public water systems. A. Killius¹, and L. T. Covell². ¹ToxStrategies, Atlanta, GA; and ²ToxStrategies, Phoenix, AZ.
- #3893 **Poster Board Number D346**
Sex-specific hepatic mitochondrial and peroxisomal bioenergetic adaptations following PFOA (C8) exposure. A. Lopez-Ramirez, J. Roberson, E. Wittenborn, and T. Woodlief. East Carolina University, Greenville, NC.
- #3894 **Poster Board Number D347**
PFOS toxicity in yeast cells: the upregulation and downregulation of genes by RNAseq. T. Sandul, and K. Kim. Missouri State University, Springfield, MO.
- #3895 **Poster Board Number D348**
Mechanisms driving Per and Polyfluoroalkyl Substances (PFAS) Disposition in Human Breast Milk: Roles of Efflux Transporters, Permeability, and Binding. L. Geyer¹, G. Norman¹, J. Beckanova^{2,1}, S. Vojta^{2,1}, R. King¹, A. Slitt¹, S. Ryu¹, and F. C. Fischer¹. ¹University of Rhode Island, Kingston, RI; and ²Graduate School of Oceanography, Narragansett, RI.
- #3896 **Poster Board Number D349**
Understanding the Molecular Impact of PFOS on Protein Structure and Function: A Biophysical and Functional Assessment. U. Sweetey, and M. Narayan. The University of Texas at El Paso, El Paso, TX. Sponsor: U. Sweetey, Society of Environmental Toxicology and Chemistry
- #3897 **Poster Board Number D350**
Persistent albuminuria in type 2 diabetes is associated with lower circulating PFAS levels: implications for kidney research. H. E. Sharkey¹, H. Wang¹, J. Bunis², B. Seo¹, A. Slitt², P. Bjornstad³, L. Pyle³, A. Ducatman⁴, L. Chatzi¹, M. Aung¹, D. Conti¹, J. Shaub⁴, J. W. Nelson¹, F. Fischer², and J. A. Goodrich¹. ¹University of Southern California, Los Angeles, CA; ²University of Rhode Island, Kingston, RI; ³University of Washington, Seattle, WA; and ⁴University of Michigan, Ann Arbor, MI.
- #3898 **Poster Board Number D351**
A bioinformatics approach identifies emerging PFAS associated with amino acid and lipid metabolic pathways during early pregnancy. A. F. Pedersen¹, L. Petrick², K. Roth¹, Z. Yang¹, C. Carignan³, J. Goodrich⁴, J. M. Kerver³, and M. Petriello¹. ¹Wayne State University, Detroit, MI; ²Icahn School of Medicine at Mount Sinai, New York, NY; ³Michigan State University, East Lansing, MI; and ⁴University of Michigan, Ann Arbor, MI.
- #3899 **Poster Board Number D352**
Parkin regulates PFOS-induced apoptosis via BAX/BAK ubiquitination in rat dopaminergic neuronal cells. S. Narukkottil, and J. Cannon. Purdue University, West Lafayette, IN.

- #3900 **Poster Board Number D353**
Environmental fate and behavior studies of polytetrafluoroethylene (PTFE) - results and application to risk assessment. *B. J. Henry*¹, and *N. Timmer*². ¹Toxicology, Risk Assessment, Scientific & Regulatory Consulting, Havre de Grace, MD; and ²Charles River Laboratories, Den Bosch BV, 's Hertogenbosch, Netherlands.
- #3901 **Poster Board Number D354**
PFAS Exposures in Military Firefighters Enrolled in the Millennium Cohort Study. *R. P. Rull*¹, *A. Morris*², *E. Richard*^{1,3}, *A. Rivera*^{1,3}, *C. Kolaja*^{1,3}, *C. Hall*^{1,3}, *L. Havens*², *K. Hartley*², *W. Culpepper*⁴, *A. Schneiderman*⁴, and *T. Vincent-Hall*⁴. ¹Naval Health Research Center, San Diego, CA; ²Central Arkansas Veterans Healthcare System, Department of Veterans Affairs, Little Rock, AR; ³Leidos Inc., San Diego, CA; and ⁴Health Outcomes Military Exposures, Department of Veterans Affairs, Washington, DC.
- #3902 **Poster Board Number D355**
Perfluorooctanoic Acid (PFOA) Exposure Induces Oxidative and Inflammatory Stress Markers in C57/BL6 mouse Ocular Tissues. *J. Roberson*, *N. Doctor*, *A. Bauer*, *A. Lopez-Ramirez*, *E. Wittenborn*, *J. Cooke Bailey*, and *T. Woodlief*. East Carolina University, Greenville, NC.
- #3903 **Poster Board Number D356**
Immuno-proteomic profiling of neural antigens links short- and long-chain PFAS exposure to neuropathological pathways in adolescents from Taranto, Italy. *S. Marjan*¹, *A. Deoraj*¹, *R. Lucchini*¹, *H. Krishnamurthy*², *D. Placidi*³, *A. Patrono*³, and *Q. Felty*¹. ¹Florida International University, Miami, FL; ²Vibrant Sciences LLC, San Carlos, CA; and ³University of Brescia, Brescia, Italy.
- #3904 **Poster Board Number D357**
Rapid Non-target Detection of Per- and Polyfluoroalkyl Substances (PFAS) in Artificial Turf. *S. Martinez*, *C. De Oliveira-Cordova*, *M. Hassan*, *T. Yaroshuk*, *H. Chen*, and *G. Warner*. New Jersey Institute of Technology, Newark, NJ.
- #3905 **Poster Board Number D358**
PFOS induces cellular damage in HepG2 and THLE-2 cell models. *P. Tran*, and *K. Kim*. Missouri State University, Springfield, MO.
- #3906 **Poster Board Number D359**
Subchronic 90-Day Oral Toxicity Study With Perfluoropentanoic Acid In Sprague Dawley Rats. *M. J. DeVito*¹, *E. Mutlu*¹, *E. Kenyon*¹, *J. Blake*², *A. Watson*³, *G. Chappell*⁴, and *M. F. Hughes*¹. ¹USEPA, Research Triangle Park, NC; ²RTI, Durham, NC; ³Inotiv, Morrisville, NC; and ⁴ICF, Research Triangle Park, NC.

PS Poster Session: Air Pollution Toxicology II

Chair(s): Ho Young Lee, Emory University.

Displayed: 9:00 AM–4:30 PM | Author Attended: 9:15 AM–11:45 AM

Abstract #

- #3907 **Poster Board Number E360**
Tire-Derived 6-PPDq Impairs Mitochondrial Function and Viability in Human Cardio-Pulmonary Cells. *P. Sharma*¹, *S. Islam*², *R. Hancock*¹, *S. Bolla*³, *B. Kosmider*⁴, *N. Marchetti*³, *G. Criner*³, *G. Andaluri*², *V. Garikipati*⁵, and *P. Sharma*¹. ¹Department of Pathology and Laboratory Medicine, Lewis Katz School of Medicine, Temple University, Philadelphia, PA; ²Department of Civil and Environmental Engineering, College of Engineering, Temple University, Philadelphia, PA; ³Department of Thoracic Medicine and Surgery, Temple Lung Center, Temple University, Philadelphia, PA; ⁴Department of Thoracic Medicine and Surgery, Temple University, Philadelphia, PA; and ⁵Department of Cardiovascular Sciences, Temple University, Philadelphia, PA.
- #3908 **Poster Board Number E361**
Chemical-dependent Effects of Acute Wildfire Smoke Exposure on Shared Inflammatory Dysregulations in the Lung and Brain. *D. You*¹, *H. Park*², *M. Malfatti*¹, *E. Ubick*¹, *S. McCloy*¹, *L. Nguyen*¹, *H. Enright*¹, and *B. Buchholz*¹. ¹LLNL, Livermore, CA; and ²UC Davis, Davis, CA.
- #3909 **Poster Board Number E362**
Study of Neighborhood Air near Petroleum Sources (SNAPS): California's characterization of air quality and health risks in communities near oil and gas operations. *L. D. Scanlan*, *H. M. Bolstad*, and *Á. Alvarado*. Office of Environmental Health Hazard Assessment, Sacramento, CA.
- #3910 **Poster Board Number E363**
Impaired efferocytosis by Mertk shedding in macrophages attributes to pathogenesis of cadmium induced emphysema. *G. Mani*, *N. Castellanos-Sanchez*, *K. Patel*, *A. Pudhota*, *S. Bodduluri*, *M. Wells*, and *R. Suroli*. University of Alabama at Birmingham, Birmingham, AL.
- #3911 **Poster Board Number E364**
Air Pollution Derived Fe-Oxide Inhalation Produces Persistent Sex-Specific Behavioral and Morphological Deficits in Mice. *J. V. George*¹, *K. Hornburg*², *T. Covitz*¹, *M. Masten*¹, *E. Marvin*¹, *D. Chalupa*¹, *K. Cristillo*¹, *C. Galloway*¹, *K. Bentley*¹, *G. Johnson*², *G. Oberdorster*¹, *D. Cory-Slechta*¹, and *M. Sobolewski*¹. ¹University of Rochester, Rochester, NY; and ²Duke University, Durham, NC.
- #3912 **Poster Board Number E365**
Simulated wildfire smoke particulate matter exposure elicits an inflammatory and oxidative response in RAW264.7 macrophage and C57BL6 mixed glia. *S. Boland*, *Z. Fields*, *J. A. Moreno*, and *L. Montrose*. Colorado State University, Fort Collins, CO.
- #3913 **Poster Board Number E366**
Effectsof Diesel Exhaust onLipid Remodeling and Endocrine Regulation in Obese Mice. *E. Scott*¹, *V. Lopez*¹, *A. Louie*², *R. Gupta*², *Z. Afsharinejad*¹, *T. K. Bammler*¹, *M. T. Kleinman*³, *J. A. Araujo*², and *J. L. Marsillach*¹. ¹University of Washington, Seattle, WA; ²University of California, Los Angeles, CA; and ³University of California, Irvine, CA.

- #3914 **Poster Board Number E367**
Occupational Health Hazards: Aerosol toxicity and cardiopulmonary effects on a restaurant cohort. A. F. Saporito¹, T. Huynh¹, A. Aherrera², J. Balmes³, J. T. Zelikoff¹, and T. Gordon¹.
¹NYU Grossman School of Medicine, New York City, NY; ²University of Pennsylvania Perelman School of Medicine, Philadelphia, PA; and ³University of California, Berkeley, Berkeley, CA.
- #3915 **Poster Board Number E368**
Spatial single-cell transcriptomic analysis of benzene-exposed atherosclerotic plaque. B. Taylor, S. McFall, M. Malovichko, S. Srivastava, and I. N. Zelko. University of Louisville, Louisville, KY.
- #3916 **Poster Board Number E369**
Function-Barrier changes in the lungs of Apoe^{-/-} mice following repeated exposure to flaming eucalyptus-manzanita smoke. C. Yazbeck¹, F. Koeini¹, N. Micovic¹, M. J. Gollner², C. Bellini¹, and J. Oakes¹. ¹Northeastern University, Boston, MA; and ²University of California, Berkeley, CA.
- #3917 **Poster Board Number E370**
Temporal Effects of Ambient Levels of Traffic Related Air Pollution on Pulmonary Injury and TGFβ Protein. J. Manzano, H. Park, M. Cheng, L. Sanchez, A. E. Valenzuela, M. C. Domanico, A. S. Wexler, K. J. Bein, P. J. Lein, and L. S. Van Winkle. University of California Davis, Davis, CA.
- #3918 **Poster Board Number E371**
Benzene-Induced Endothelial Activation: Mitigation by Heat Shock Proteins. S. A. McFall, N. S. Wickramasinghe, T. Malik, I. Zelko, and S. Srivastava. University of Louisville, Louisville, KY.
- #3919 **Poster Board Number E372**
Inhaled Copper Nanoparticles Induce Pulmonary Inflammation and Blood-Brain Barrier Dysfunction in a Late-Onset Alzheimer's Disease Mouse Model. D. Lee¹, M. Pavlovic², M. Weis³, S. E. Beyer^{3,4}, S. Chatterjee^{3,4}, and J. Kim^{1,2}. ¹Department of Occupational and Environmental Health, College of Public Health, The University of Iowa, Iowa City, IA; ²Interdisciplinary Graduate Program in Human Toxicology, Graduate College, The University of Iowa, Iowa City, IA; ³Department of Neuroscience and Pharmacology, Carver College of Medicine, University of Iowa, Iowa City, IA; and ⁴Iowa Neuroscience Institute, University of Iowa, Iowa City, IA.
- #3920 **Poster Board Number E373**
Reference Exposure Levels for Trimethylbenzenes. M. Sullivan, and R. Woods. Cal/EPA, OEHHA, Sacramento, CA. Sponsor: M. Sun
- #3921 **Poster Board Number E374**
Estrogen Signaling As a Determinant of Immune Vulnerability to Wildfire Smoke Exposure. K. E. Zychowski, M. Oh, E. Lim, S. Yazzie, E. Barr, E. Prossnitz, S. Leng, C. McVeigh, A. Bolt, and J. Gillette. University of New Mexico, Albuquerque, NM.
- #3922 **Poster Board Number E375**
Traffic-related air pollution exposure across the lifespan accelerates age-related renal injury in rats. J. Haverfield¹, L. Aziz¹, M. Faquette¹, A. Bhusal², N. Nasim², A. E. Valenzuela², H. Ahabchane³, K. J. Wilkinson³, A. S. Wexler⁴, K. J. Bein^{4,5}, P. J. Lein^{2,4}, A. K. Ryan^{1,6,7}, and I. R. Gupta^{1,7,6}. ¹Research Institute of the McGill University Health Centre, Montreal, QC, Canada; ²Department of Molecular Biosciences, University of California, Davis, Davis, CA; ³Department of Chemistry, Université de Montréal, Montreal, QC, Canada; ⁴Air Quality Research Center, University of California, Davis, Davis, CA; ⁵Center for Health and the Environment, University of California, Davis, Davis, CA; ⁶Department of Human Genetics, McGill University, Montreal, QC, Canada; and ⁷Department of Pediatrics, McGill University, Montreal, QC, Canada.

- #3923 **Poster Board Number E376**
Effects of Diesel Exhaust and High-Fat Diet on Systemic Oxidative Stress and Inflammation in Mice. L. Goodwin¹, R. J. Richter¹, E. Scott¹, C. E. Furlong¹, A. Louie², R. Gupta², M. T. Kleinman³, J. A. Araujo³, and J. Marsillach¹. ¹University of Washington, Seattle, WA; ²University of California, Los Angeles, CA; and ³University of California, Irvine, CA.
- #3924 **Poster Board Number E377**
Genetic and Chemical Modulation of Heme Oxygenase-1 Regulates Ultrafine Particle-Induced Inflammation in Macrophages. A. Louie¹, R. Chuang¹, E. Y. Lin¹, S. Prabu¹, A. Nair¹, A. Moroz¹, M. Sanchez¹, N. Fulton¹, E. Olivo Cauberghe¹, M. Badami², Y. Aghaei², C. Sioutas², and J. A. Araujo¹. ¹University of California, Los Angeles, Los Angeles, CA; and ²University of Southern California, Los Angeles, CA.
- #3925 **Poster Board Number E378**
CO₂ Mediated Regulation of Neutrophil NADPH Oxidase and Interaction with Reactive Nitrogen Species. D. Gupta, C. Guo, E. Abramova, H. Kipen, and A. Gow. Rutgers University, Piscataway, NJ.
- #3926 **Poster Board Number E379**
Understanding ethylene oxide background concentrations in the US. E. Bonner, A. Costa, M. Miller, M. Celente, K. Hall, E. Farstad, and T. McMullin. CTEH, Golden, CO.

Tuesday, March 24, 9:15 AM to 11:45 AM, Exhibit Hall B, Convention Center

PS Poster Session: Air Pollution: Ozone

Chair(s): Laura Van Winkle, University of California Davis.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 9:15 AM–11:45 AM

Abstract #

- #3927 **Poster Board Number E381**
CHEMR23 Signaling Protects Against Ozone-Induced Airspace Inflammation through RvE1 Signaling. N. Suresh¹, A. Mehta¹, E. Schott¹, S. Varikuti¹, M. Yaeger¹, I. Cumming², G. Hutton¹, T. Ngatikaura¹, B. Kilburg-Basnyat³, R. M. Tighe², S. R. Shaikh⁴, H. B. Lovins¹, and K. M. Gowdy¹. ¹The Ohio State University Wexner Medical Center, Columbus, OH; ²Duke University Medical Center, Durham, NC; ³Arcus Biosciences, Hayward, CA; and ⁴The University of North Carolina at Chapel Hill, Chapel Hill, NC.
- #3928 **Poster Board Number E382**
Exploring the Role of Retinoids in Protecting the Lungs Against Inhaled Ozone. N. Ficken, K. Vayas, V. Sunil, A. J. Gow, D. L. Laskin, and I. Shmarakov. Rutgers University, Piscataway, NJ.
- #3929 **Poster Board Number E383**
Targeting All-trans-Retinoic Acid Signaling to Mitigate Ozone Respiratory Toxicity. I. Shmarakov, A. J. Gow, and D. L. Laskin. Rutgers University, Piscataway, NJ.
- #3930 **Poster Board Number E384**
The Interactions between Chromosomal and Gonadal Sex Affect Lung Function After Sub-Chronic Ozone Exposure. D. Rousselle, C. D. Ekpruke, and P. Silveyra. Indiana University, Bloomington, IN.

- #3931 **Poster Board Number** E385
Effects of Sub-Chronic Ozone Exposure on Ovarian Follicular Development and Gene Expression in Adult Female Mice. A. Joyce, D. Rousselle, and P. Silveyra. Indiana University Bloomington, Bloomington, IN.
- #3932 **Poster Board Number** E386
Ozone-Induced Lung Injury Increases Susceptibility to Lower Respiratory Infections by Elevating Airspace Iron Concentrations. E. Schott¹, S. J. Cochran¹, G. Hutton¹, M. J. Yaeger¹, M. I. McFadden¹, J. M. Baker², H. Lovins³, A. Lutton¹, J. Olesik¹, R. P. Dickson², A. Forero¹, R. M. Tighe⁴, M. E. Long¹, and K. M. Gowdy¹. ¹The Ohio State University, Columbus, OH; ²University of Michigan, Ann Arbor, MI; ³The University of Findlay, Findlay, OH; and ⁴Duke University, Durham, NC.
- #3933 **Poster Board Number** E387
Prior Viral Lung Injury Enhances Lung Inflammation to Subsequent Ozone Exposure. C. Rankin¹, M. Albright², R. Nafikova³, A. Misharin³, and R. Tighe². ¹Nicholas School of the Environment, Integrated Toxicology and Environmental Health Program, Duke University, Durham, NC; ²Department of Medicine, Duke University Medical Center, Durham, NC; and ³Northwestern University Feinberg School of Medicine, Chicago, IL.
- #3934 **Poster Board Number** E388
Exaggerated defects in pulmonary mechanics following ozone exposure in mice lacking GCN2. J. R. Rodriguez, K. N. Vayas, E. V. Abramova, P. Zhou, T. G. Anthony, J. D. Laskin, A. J. Gow, and D. L. Laskin. Rutgers University, Piscataway, NJ.
- #3935 **Poster Board Number** E389
Prolonged Ozone Exposure Induces Sex-Specific Changes in the Gut Microbiota and Production of Short Chain Fatty Acids in Mice. C. R. Longoria¹, P. Zhou¹, V. Sunil¹, K. Vayas¹, J. D. Laskin¹, N. Burchat², H. Sampath², L. B. Joseph¹, S. C. Campbell², and D. L. Laskin¹. ¹Rutgers University, Piscataway, NJ; and ²Rutgers University, New Brunswick, NJ.
- #3936 **Poster Board Number** E390
Sex Differences in Airway Inflammation and Remodeling after Repeated Ozone Exposure in CC002 Mice. M. Ramar, A. D. Singh, G. L. Riley, III, L. Gao, C. Blesso, and L. C. Smith. University of Connecticut, Storrs, CT.
- #3937 **Poster Board Number** E391
Impact of Ozone Exposure Timing on Lung Injury and Inflammation in a Model of SurfactantProtein-C-Driven Inflammatory Exacerbations of Pulmonary Fibrosis. C. B. Montgomery¹, J. R. Cheminant², M. Buddy², and A. Venosa¹. ¹UC Davis, Davis, CA; and ²University of Utah, Salt Lake City, UT.
- #3938 **Poster Board Number** E392
Alveolar Macrophage Temporal Transcriptional Plasticity in Response to Acute Ozone Exposure. I. Patil¹, L. C. Smith², A. J. Gow¹, J. D. Laskin¹, D. L. Laskin¹, and I. Shmarakov¹. ¹Rutgers University, Piscataway, NJ; and ²University of Connecticut, Storrs, CT.
- #3939 **Poster Board Number** E393
Interleukin-1 Receptor 2 Transcription in a Subset of Alveolar Macrophages During Acute Lung Injury induced by Ozone and Endotoxin. J. Radbel¹, A. Lemenze², P. Zhou³, E. Abramova⁴, K. Vayas⁴, J. D. Laskin³, A. J. Gow⁴, and D. L. Laskin⁴. ¹Rutgers Robert Wood Johnson Medical School, New Brunswick, NJ; ²Rutgers New Jersey Medical School, Newark, NJ; ³Rutgers School of Public Health, Piscataway, NJ; and ⁴Ernest Mario School of Pharmacy, Piscataway, NJ.

- #3940 **Poster Board Number** E394
Ozone Exposure Alters Alveolar Macrophage Efferocytosis Receptor Gene Expression in Mice. *B. Gelfand-Titiyevskiy¹, P. Zhou¹, E. Abramova¹, J. D. Laskin², A. J. Gow¹, D. L. Laskin¹, and J. Radbel³.* ¹Ernest Mario School of Pharmacy, Rutgers, The State University of New Jersey, Piscataway, NJ; ²Environmental and Occupational Health Sciences Institute, Rutgers, The State University of New Jersey, Piscataway, NJ; and ³Rutgers Robert Wood Johnson Medical School, New Brunswick, NJ.
- #3941 **Poster Board Number** E395
The role of CD163-mediated cell free hemoglobin clearance in ozone-induced pulmonary injury and inflammation. *S. J. Cochran¹, B. Saunders¹, G. M. Hutton¹, E. Schott¹, K. Dunigan-Russell¹, A. Vose², A. Birukova², C. Rankin², M. Velayutham³, S. Hussain³, T. J. McMahon², R. M. Tighe², and K. M. Gowdy¹.* ¹The Ohio State University, Columbus, OH; ²Duke University, Durham, NC; and ³West Virginia University, Morgantown, WV.
- #3942 **Poster Board Number** E396
Synergistic effects of ozone and heatwave exposure on lung inflammation in young mice:Evidence and Mechanism of Lung Stem Cells. *X. Jian, X. Zhang, and F. Feng.* Zhengzhou University, Zhengzhou, China. Sponsor: F. Feng, Environmental Mutagenesis and Genomics Society
- #3943 **Poster Board Number** E397
Peripheral and Lung Cytokine Profiles Are Associated with Ozone-Induced Lung Inflammation in Humans. *O. Kline¹, S. Cochran², I. Cumming¹, E. Schott², C. Rankin¹, T. Schappe¹, K. Kilpatrick¹, L. Lin¹, K. Gowdy², and R. Tighe¹.* ¹Duke University, Durham, NC; and ²Ohio State University, Columbus, OH.

Tuesday, March 24, 1:45 PM to 4:15 PM, Exhibit Hall B, Convention Center

PS Poster Session: Air Pollution: Particulate Matter

Chair(s): Mariana Farcas, Altria Client Services LLC; and Michael Kleinman, University of California Irvine.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 1:45 PM–4:15 PM

Abstract #

- #3944 **Poster Board Number** E400
Diesel exhaust particle inhalation-induced exacerbation of murine lupus nephritis may be mitigated with probiotic supplementation. *K. Nguyen-Alley, N. Ramesh, and A. K. Lund.* University of North Texas, Denton, TX.
- #3945 **Poster Board Number** E401
Sex Differences and Estrogen Dependent Cytokine Release in Human Small and Large Airway Epithelial Cells Exposed to Peat and Eucalyptus Wood Smoke Condensates. *T. M. Reinartz¹, M. J. Rodriguez², Y. Kim³, K. Okuda⁴, and M. Rebuli⁵.* ¹UNC-CH, Chapel Hill, NC; ²UNC School of Medicine, Chapel Hill, NC; ³Public Health and Integrated Toxicology Division, Center for Public Health and Environmental Assessment, U.S. EPA, RTP, NC; ⁴Marsico Lung Institute/Cystic Fibrosis Research Center, Chapel Hill, NC; and ⁵Center for Environmental Medicine, Asthma, and Lung Biology, Department of Pediatrics, Chapel Hill, NC.

- #3946 **Poster Board Number E402**
Associations between PM_{2.5} and self-reported cognitive decline in the United States, 2015 to 2022: Evidence from the behavioral risk factor surveillance system (BRFSS). A. Parekh¹, S. Commodore¹, E. Parker¹, S. Dickinson¹, V. Ramakrishnan², J. Horvat³, M. Tadros³, K. Shao¹, and P. Silveyra¹. ¹Indiana University, Bloomington, IN; ²Indiana University School of Medicine, Indianapolis, IN; and ³The University of Newcastle, New Lambton Heights, Australia.
- #3947 **Poster Board Number E403**
Diesel Exhaust Particles Modulate Splenic Cytokine Expression in Juvenile Mice. R. Acevedo Reyes¹, A. Catala Catala², C. M. González Rivera¹, and L. B. Mendez¹. ¹Universidad Ana G. Mendez, Carolina, PR; and ²Universidad Ana G. Mendez, Cupey, PR.
- #3948 **Poster Board Number E404**
Surgical Smoke in the Operating Room: Evaluating the Role of Smoke Evacuators on Surgical Staff Exposure. V. Reddy¹, W. Oslock¹, A. Chada², A. Specht³, and R. Vilcassim¹. ¹University of Alabama at Birmingham, Birmingham, AL; ²Nova Southeastern University, Davie, FL; and ³Purdue University, West Lafayette, IN.
- #3949 **Poster Board Number E405**
Diesel exhaust particles induce anxiety-like behaviors in juvenile mice. J. Ledesma Vicioso¹, H. J. Rosa², and L. B. Mendez¹. ¹Universidad Ana G. Mendez, Carolina, PR; and ²Universidad Ana G. Mendez, Cupey, PR.
- #3950 **Poster Board Number E406**
Lipid Compositional and Spatial Alterations Associated with Pulmonary and Systemic Toxicity Following Silica Exposure. J. N. Swihart¹, E. L. Rossini², W. Zhang³, C. R. Ferreira³, A. Pitchai¹, A. Shinde¹, and J. H. Shannahan¹. ¹School of Health Sciences, Purdue University, West Lafayette, IN; ²Institute of Chemistry, Department of Analytical Chemistry, São Paulo State University (UNESP), São Paulo, Brazil; and ³Purdue Metabolite Profiling Facility, Purdue University, West Lafayette, IN.
- #3951 **Poster Board Number E407**
Soluble Epoxide Hydrolase Inhibition Alleviates AgNP-induced Pulmonary Inflammation in a Metabolic Syndrome Mouse Model. A. Pitchai, J. Swihart, K. Robison, A. Shinde, W. Wang, and J. Shannahan. Purdue University, West Lafayette, IN.
- #3952 **Poster Board Number E408**
Linking Airborne Particulate Exposure to VOC Emission Changes: The Role of TET1 and Oxidative Stress in HBECs. L. L. Jones, M. Sivaprasad, A. L. Linderholm, S. P. Elston, H. Ji, and N. J. Kenyon. University of California, Davis, Davis, CA. Sponsor: L. Van Winkle
- #3953 **Poster Board Number E409**
Mass spectrometry imaging (MSI) elucidates regional distribution of metabolomic and lipidomic changes in the brain following exposure to wildfire smoke in mice. E. Y. Suh¹, T. Jiang¹, H. Gu², J. Begay¹, E. Barr¹, S. Lucas¹, G. Herbert¹, L. Li², X. Liu², S. Cui², S. Noor¹, and M. Campen¹. ¹University of New Mexico, Albuquerque, NM; and ²Arizona State University, Phoenix, AZ.
- #3954 **Poster Board Number E410**
Removal of volatile organic compounds by chemical filters significantly inhibited the development of atopic dermatitis symptoms in mice: Potential implications for Air Conditioning Systems in Healthcare Environments. C. Ohira¹, K. Tomita², Y. Ota², K. Yano², M. Amano², M. Kaneki¹, A. Yamada³, R. Usui³, Y. Nagai³, M. Nagane¹, S. Takagi¹, and T. Fukuyama¹. ¹Azabu University, Kanagawa, Japan; ²Shimizu Corporation, Tokyo, Japan; and ³Fuji Industrial Co, Kanagawa, Japan.

- #3955 **Poster Board Number E411**
Repeated pharyngeal aspiration of cloth debris may cause chronic tissue damage through immune suppression. E. Park, W. Jung, J. Lee, C. Yoon, M. Yang, T. Yu, and J. Kim. Kyung Hee University, Seoul, Korea, Republic of. Sponsor: J. Kim
- #3956 **Poster Board Number E412**
Variations in PM_{2.5} and Black Carbon Concentrations during Prescribed Burn and Burn-Ban Seasons in Georgia. B. Johnson, L. Harden, K. Osborne, and C. Roper. University of Mississippi, Oxford, MS.
- #3957 **Poster Board Number E413**
Carbon Black particles induce emphysema and inflammasome activation: a whole-mouse lung proteome landscape. N. C. Sanchez, G. Mani, K. G. Dsouza, K. H. Patel, D. Shimoga Chandrashekar, J. A. Mobley, and R. Suroli. University of Alabama at Birmingham, Birmingham, AL.
- #3958 **Poster Board Number E414**
The Protective Role of Nlr1 in Air Pollution-Exacerbated Acute Lung Injury. Y. Li¹, C. Monge¹, W. T. Goldsmith¹, A. Ranpara¹, T. Nurkiewicz¹, R. Tighe², J. Harkema³, and S. Hussain¹. ¹West Virginia University, Morgantown, WV; ²Duke University, Durham, NC; and ³Michigan State University, East Lansing, MI.
- #3959 **Poster Board Number E415**
Repeated Exposure to Great Salt Lake Dust Induces Asthma-Like Phenotypes in Mice. E. Romero, C. Deering-Rice, L. Sun, S. Serna, and C. Reilly. University of Utah, Salt Lake City, UT.
- #3960 **Poster Board Number E416**
Exposure Assessment of Particulate Matter and Ammonia in Different Sections of a Veterinary Clinic during Working Hours. D. M. McGee, D. K. Seybold, O. P. Jegede, and A. Adhikari. Georgia Southern University, Statesboro, GA. Sponsor: D. McGee, Society of Environmental Toxicology and Chemistry
- #3961 **Poster Board Number E417**
Wildland-urban interface fires: toxic physicochemical properties of emitted particulate matter and impacts on lung macrophages. L. Bazina¹, G. M. Deloid¹, L. Calderon¹, G. A. Kelesidis¹, J. Laurent¹, I. Tsiodra², N. Mihalopoulos², L. Fritzky¹, N. Vaze¹, and P. Demokritou¹. ¹Rutgers University, New Brunswick, NJ; and ²NOA, Athens, Greece.
- #3962 **Poster Board Number E418**
Prenatal exposure to ultrafine particulate matter dysregulates offspring lung function and blunts IL-13 responses in asthma-like model. D. C. Mills, J. Jimenez-Chavez, A. De Vizcaya Ruiz, and M. Kleinman. University of California, Irvine, Irvine, CA.
- #3963 **Poster Board Number E419**
Particulate matter containing environmentally persistent free radicals (EPFRs) induced oxidative stress responses in lung organoids exposed at the air-liquid interface. S. Thota, and A. Noel. Louisiana State University, East Baton Rouge, LA.
- #3964 **Poster Board Number E420**
Activation of AhR and NF-κB Pathways Links Wildfire Smoke Exposure to Lymphoma Development. C. Vogel¹, K. Bein¹, D. Vang¹, J. Connolly¹, T. Haarmann-Stemmann², P. Ruivo¹, and J. Tuscano¹. ¹UC Davis, Davis, CA; and ²IUF - Leibniz Research Institute for Environmental Medicine, Duesseldorf, Germany.
- #3965 **Poster Board Number E421**
Effects of Acute Copper Ultrafine Particle Inhalation in APP/PS1 Mice. J. Enos¹, D. Chalupa¹, K. Eggleston¹, A. Gonzalez¹, R. Hussain², and A. Elder¹. ¹University of Rochester, Rochester, NY; and ²University of Maryland, Baltimore, MD.

- #3966 **Poster Board Number E422**
Diesel exhaust particulates disrupt cardiometabolic and endocrine signaling associated with altered vascular AhR/TLR-4/Notch pathways and inflammation in female C57BL/6 mice. V. L. Youngblood¹, P. Gilbreth¹, A. Sovero¹, T. Armstrong¹, J. L. Bradshaw², R. L. Cunningham², and A. K. Lund¹. ¹University of North Texas, Denton, TX; and ²University of North Texas - Health, Ft. Worth, TX.
- #3967 **Poster Board Number E423**
Late Adolescent Exposure to Concentrated Ambient Fine Particulate Matter Air Pollution (PM_{2.5}) Increases Seminiferous Tubule Degeneration in Adult Mice, While Having no Effects on Testicular/Epididymal Sperm Counts. T. Kang, F. A. Luna, C. N. Lim, J. Lim, and U. Luderer. University of Irvine, Irvine, CA.
- #3968 **Poster Board Number E424**
Virtual Impactors as Tools for Increasing Concentration of Particulate Matter in Air Sampling to Improve Chemical Characterization for Assessing Exposure to Air Pollutants. A. Stephens, C. Hogan, B. Olson, and I. Stepanov. University of Minnesota, Minneapolis, MN.
- #3969 **Poster Board Number E425**
Early biomarkers of metabolic dysfunction-associated steatotic liver disease in juvenile mice exposed to diesel exhaust particles. A. G. Catala Catala¹, D. L. Diaz Agosto², C. M. Gonzalez Rivera², N. E. Chorna³, and L. B. Mendez². ¹Universidad Ana G. Mendez, Cupey, PR; ²Universidad Ana G. Mendez, Carolina, PR; and ³University of Puerto Rico, Medical Science Campus, San Juan, PR.
- #3970 **Poster Board Number E426**
Impact of short-term inhalation of Great Salt Lake Dust Particles (GSLD PM_{2.5}) on Dravet Syndrome pathophysiology. A. Sri Hari, N. Metcalf, J. Camacho, C. Rice, C. Reilly, and C. S. Metcalf. University of Utah, Salt Lake City, UT.
- #3971 **Poster Board Number E427**
TET1 Protects Against Diesel Exhaust Particle (DEP) - Induced Airway Inflammation and Dysfunction. S. N. Henson, T. Zhu, E. Holmes, S. Palomares, L. Cai, S. Elston, and H. Ji. UC Davis, Davis, CA. Sponsor: H. Ji, Environmental Mutagenesis and Genomics Society
- #3972 **Poster Board Number E428**
Distribution and Deposition of Wildfire Smoke Chemicals into Brain and Olfactory Bulb of Rats after Intranasal Installation. D. You, M. Malfatti, E. Ubick, S. McCloy, S. Gosting, L. Nguyen, S. Hok, H. Enright, and B. Buchholz. LLNL, Livermore, CA.

Tuesday, March 24, 1:45 PM to 4:15 PM, Exhibit Hall B, Convention Center

PS Poster Session: Engineered Nanomaterials

Chair(s): Erin Huber, RTI International.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 1:45 PM–4:15 PM

Abstract #

- #3973 **Poster Board Number E434**
Biochemical and Histopathological Evaluation of long-term exposure of copper oxide nanoparticles in Wister Rats. A. Patlolla¹, S. Kumari², and P. Tchounow¹. ¹Jackson State University, Jackson, MS; and ²Nizam College, Hyderabad, India.

- #3974 **Poster Board Number E435**
Beyond Imaging: Immune Cell Interactions with MRI Contrast Agents. K. Day, D. Panchal, H. Alkhadrawi, K. Dese, and M. Bennewitz. West Virginia University, Morgantown, WV.
- #3975 **Poster Board Number E436**
A House Dust Mite Allergen Corona on Multi-Walled Carbon Nanotubes Amplifies Pro-Inflammatory Responses of Murine Alveolar Macrophages *in vitro*. R. D. Bartone¹, L. Tisch¹, D. Jima¹, S. Kalpattu², C. Payne², and J. Bonner¹. ¹NC State University, Raleigh, NC; and ²Duke University, Durham, NC.
- #3976 **Poster Board Number E437**
Characterization of remaining titanium dioxide in Peyer's patches of rats after 90-day subchronic oral exposure. J. Akagi¹, Y. Mizuta¹, K. Matsushita¹, T. Toyoda¹, and K. Ogawa^{1,2}. ¹National Institute of Health Sciences, Kawasaki, Japan; and ²Department of Toxicology, Hoshi University, Tokyo, Japan.
- #3977 **Poster Board Number E438**
Electrostatic vs. Covalent Doxorubicin Conjugation: Optimizing Chitosan Nanoparticles for Receptor-Mediated Cancer Cell Targeting. A. Chand, M. Frerichs, L. Janson, M. Oyshi, M. Galib, R. Mayanovic, and K. Kim. Missouri State University, Springfield, MO.
- #3978 **Poster Board Number E439**
Folic acid tagged and carbon quantum dot loaded liposome for targeted drug delivery of doxorubicin to HeLa cervical cancer cells. E. Braun, and K. Kim. Missouri State University, Springfield, MO.
- #3979 **Poster Board Number E440**
Pulmonary mTORC1 Disruption Mediates Metabolic Syndrome Associated Susceptibility to Nanoparticle Exposure by Regulating Lipid Signaling, Autophagy and Insulin Sensitivity. A. A. Shinde, A. Pitchai, J. Swihart, K. Robison, C. Ferreira, and J. Shannahan. Purdue University, West Lafayette, IN.
- #3980 **Poster Board Number E441**
A review of the association of pulmonary health effects and inhalation exposure to carbon nanotubes. P. Chrysostomou¹, and J. Lin². ¹Exponent, Washington, DC; and ²Exponent, Bellevue, WA.
- #3981 **Poster Board Number E442**
Pregnancy-induced changes in heart function altered by exposure to common industrial nanoparticle, titanium dioxide (TiO₂). J. P. Mogus, R. Nohoesu, E. Meadows, M. Eminhizer, and J. Hollander. West Virginia University, Morgantown, WV.

PS Poster Session: Risk Assessment II

Chair(s): Jennifer Rayner, SRC Inc.; and Melissa Vincent, ToxStrategies LLC.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 9:15 AM–11:45 AM

Abstract #

- #3982 **Poster Board Number F444**
Probabilistic estimation of daily total nitrosamine exposures generated from drinking water and dietary nitrate and nitrite sources. *W. D. Klaren¹, A. East¹, M. Wheeler¹, M. Vincent², D. S. Wikoff¹, and T. Covington².* ¹ToxStrategies LLC, Asheville, NC; and ²ToxStrategies LLC, Cincinnati, OH.
- #3983 **Poster Board Number F445**
Development of a human PBMC TXG-MAPr as a mechanistic framework to interpret toxicodynamic variability across the human population. *N. Tahir¹, I. Bruns¹, L. van Schijndel², J. Rousel², D. R. Pereira², M. Moerland², S. Fu³, N. Quignot³, F. Y. Bois³, M. J. Moné¹, G. Callegaro¹, S. Le Dévédec¹, M. Niemeijer¹, and B. van de Water¹.* ¹Division of Cell Systems and Drug Safety, LACDR, Leiden University, Leiden, Netherlands; ²Centre for Human Drug Research, Leiden, Netherlands; and ³CERTARA, Paris, France.
- #3984 **Poster Board Number F446**
Characterization of human toxicodynamic variability using peripheral blood mononuclear cells from a large cohort of healthy volunteers. *N. Tahir¹, I. B. Bruns¹, L. v. Schijndel², J. Rousel², M. v. Diemen², D. R. Pereira², M. Moerland², S. Fu³, N. Quignot³, F. Y. Bois³, M. J. Moné¹, G. Callegaro¹, S. L. Dévédec¹, M. Niemeijer¹, and B. v. Water¹.* ¹Leiden Academic Centre for Drug Research, Leiden, Netherlands; ²Centre for Human Drug Research, Leiden, Netherlands; and ³Certara, Paris, France.
- #3985 **Poster Board Number F447**
Risk Assessment of Flame Retardant and Plasticizer Exposures from Mattresses Considering Body Weight and Body Temperature Impact on Emission Rates. *D. M. Scalise, and L. A. Haighton.* Intertek Health Sciences Inc., Mississauga, ON, Canada.
- #3986 **Poster Board Number F448**
Enhancing genotoxicity risk assessment through an *in silico* workflow. *A. Fowkes, A. Musso, G. Kocks, and R. Foster.* Lhasa Limited, Leeds, United Kingdom.
- #3987 **Poster Board Number F449**
Screening-Level Cumulative Health Risk Evaluation: Exposures to Acetamiprid, Clothianidin, Dinotefuran, Imidacloprid and Thiamethoxam residues from Non-Agricultural Uses. *P. Dodmane, S. Koshlukova, S. Tiscione, J. Adragna, and S. DuTeaux.* Department of Pesticide Regulation, Sacramento, CA.
- #3988 **Poster Board Number F450**
A Risk Assessment of Ethylene Oxide Release from a Sterilization Facility: A Data-Driven Case Study on Community Exposure and Risk. *Q. Perry¹, K. Kissell¹, B. Deckard¹, G. Hoffnagle², and D. Paustenbach¹.* ¹TRC Strategic Health Sciences, Jackson, WY; and ²TRC Environmental, Windsor, CT.

#3989	Poster Board Number F451 A Conceptual Framework Using Weight-of-Evidence Incorporating New Approach Methods for Risk Assessment. <i>A. Pecquet¹, E. Freeman², S. Catalano³, J. Mehta⁴, T. Ramanarayanan¹, and A. Goetz¹.</i> ¹ Syngenta Crop Protection LLC, Greensboro, NC; ² Exponent Inc., Center for Chemical Regulation and Food Safety, Washington, DC; ³ Corteva Agriscience, Newark, DE; and ⁴ ADAMA Agricultural Solutions, Washington, DC.
#3990	Poster Board Number F452 Integrating Epidemiological Evidence for Dose-Response Assessment of Inorganic Arsenic-Induced Non-Cancer Effects. <i>K. Shao¹, N. Dai¹, A. B. Afzal¹, and P. Boffetta².</i> ¹ Indiana University, Bloomington, IN; and ² Stony Brook University, Stony Brook, NY.
#3991	Poster Board Number F453 Risk and Exposure Assessment of Non-agricultural Uses of Imidacloprid. <i>A. A. Kalashnikova, M. C. Geier, A. L. Rubin, B. Darsie, P. Dodmane, S. Tiscione, Q. Dong, P. Lohstroh, E. Kwok, S. Koshlukova, and S. DuTeaux.</i> Department of Pesticide Regulation, Sacramento, CA.
#3992	Poster Board Number F454 Coexisting with Toxic Legacies: Assessing Soil Metal Levels, Sources, and Health Risks Associated with Living Amid Contamination Within a Superfund Site. <i>T. Huynh¹, E. El Hayek², C. Van Dunk³, V. Mann³, E. Erdei², and J. Zelikoff¹.</i> ¹ NYU Langone Health, New York, NY; ² University of New Mexico, Albuquerque, NM; and ³ Ramapough Lunaape Turtle Clan, Ringwood, NJ.
#3993	Poster Board Number F455 A risk assessment of dermal exposure to aniline from home use of synthetic indigo dyes. <i>C. Hamaji¹, M. Streifer², and E. Fung³.</i> ¹ Integral Consulting, San Francisco, CA; ² Integral Consulting, Austin, TX; and ³ Integral Consulting, Irvine, CA.
#3994	Poster Board Number F456 California Proposition 65 NSRL Derivation for Aflatoxins. <i>M. H. Whittaker.</i> ToxServices LLC, Washington, DC.
#3995	Poster Board Number F457 Derivation of an NSRL for vinyl acetate. <i>M. C. Buser, A. Jachak, and J. Persky.</i> RHP Risk Management, Chicago, IL. Sponsor: M. Buser, Society for Risk Analysis
#3996	Poster Board Number F458 A Review of EPA's TSCA Risk Evaluation for Site-specific Occupational Risk Assessment of Formaldehyde. <i>N. Gowadia¹, and L. Lund².</i> ¹ Jacobs, Irvine, CA; and ² Jacobs, Shelley, ID.
#3997	Poster Board Number F459 Acute (24-hour) Nickel Inhalation Reference Concentration for Use in Air Toxics Risk Assessment. <i>D. M. Proctor¹, A. H. Verwiel¹, T. R. Covington², and C. T. Thompson³.</i> ¹ ToxStrategies LLC, Mission Viejo, CA; ² ToxStrategies LLC, Beaver Creek, OH; and ³ ToxStrategies LLC, Katy, TX.
#3998	Poster Board Number F460 Application of a Bayesian Network to derive a probability of causality in support of weight of evidence assessments, with a case study on a drinking water risk assessment. <i>F. Momoli¹, G. Paoli¹, N. Farhat¹, I. Moffat², and P. Price¹.</i> ¹ Risk Sciences International, Ottawa, ON, Canada; and ² Health Canada, Ottawa, ON, Canada.
#3999	Poster Board Number F461 Advancing Photoallergy Risk Assessment: Integrating the ROS Assay and UV-Vis Spectroscopy Under Full-Spectrum (UVA and UVB) Conditions for Tiered Screening of Fragrance Materials. <i>C. Deodhar¹, G. Ritacco¹, A. Hilberer², K. Bouchard², K. Cantrell², J. Kwiatek², D. Botelho¹, and A. Api¹.</i> ¹ The Research Institute for Fragrance Materials, Mahwah, NJ; and ² Institute for In Vitro Sciences, Gaithersburg, MD.
#4000	Withdrawn

- #4001 **Poster Board Number F463**
Inhaled Mycotoxin Doses from Fungal Growth in Water-Damaged Residential Exposure Scenarios Are Orders of Magnitude Below Tolerable Daily Intake Levels. A. E. Loccisano¹, D. Singh², and B. D. Kerger³. ¹Exponent Inc, Alexandria, VA; ²Exponent Inc, Oakland, CA; and ³Exponent Inc, Tampa, FL.
- #4002 **Poster Board Number F464**
Considerations and Methodologies for Determining Systemic Health-Based Exposure Limits (HBELs) for Rare and Unconventional Routes of Pharmaceutical Administration. S. B. Bandara¹, E. Fung², Y. Yu-Rice¹, and D. G. Dolan¹. ¹Amgen, Thousand Oaks, CA; and ²Integral Consulting, San Francisco, CA.
- #4003 **Poster Board Number F465**
Case Study of Permissible Daily Exposure Limit Derivation for Butyl Oligomer (C₂₁H₄₀): Gradient vs. ICH Q3E. I. Mohar¹, and I. Hadley². ¹Gradient, Seattle, WA; and ²Gradient, Boston, MA.
- #4004 **Poster Board Number F466**
Evaluation of exposure associated with use of asbestos-containing gloves of the 1940s to 1960s era. B. Deckard¹, Q. Perry¹, G. Abele², and D. Paustenbach¹. ¹TRC Strategic Health Sciences, Jackson, WY; and ²TRC Strategic Health Sciences, Denver, CO.
- #4005 **Poster Board Number F467**
Need for Fit-for-Purpose Approaches that Integrate Dose, Mechanism, and Context of Use with Key Characteristics when Evaluating the Carcinogenic Potential of Widely Used Therapeutics: A Case Study of Acetaminophen. D. Wikoff¹, S. Fitch², G. Eichenbaum³, S. Ejaz⁴, W. Klaren¹, and M. Southall⁴. ¹ToxStrategies Inc, Asheville, NC; ²ToxStrategies Inc, Asheville, TX; ³Oaktree Life Sciences Consulting, Summit, NJ; and ⁴Kenvue Medical Clinical and Safety Sciences, Summit, NJ.
- #4006 **Poster Board Number F468**
Benchmarking the Invisible: A Tiered Framework for Deriving Benchmark Dose from Multi-Study Toxicological Data on Nano- and Microplastics. A. Ortiz Balsero¹, B. Wang¹, J. Kahrizsangi¹, Y. Li¹, G. Gray², L. Fernandez-Ballester¹, C. Yan¹, M. Rashedul Hasan¹, and J. Baumert¹. ¹University of Nebraska-Lincoln, Lincoln, NE; and ²Milken Institute School of Public Health, Washington, WA. Sponsor: G. . Gray, Society for Risk Analysis
- #4007 **Poster Board Number F469**
Systematic Evidence Reviews: When to Stop Screening? B. E. Howard, A. Tandon, R. Elmore, and R. R. Shah. Sciome LLC, Research Triangle Park, NC.
- #4008 **Poster Board Number F470**
Practical Predictive Risk Assessment Approaches for Chemicals. A. Goetz¹, R. Currie², O. Alexander¹, and N. Ryan¹. ¹Syngenta Crop Protection LLC, Greensboro, NC; and ²Syngenta Crop Protection, Bracknell, United Kingdom.
- #4009 **Poster Board Number F471**
A Structured Protocol for Developing Adverse Outcome Pathways: Ensuring Transparency, Reproducibility and FAIR compliance. B. Viviani¹, K. Jagiello², B. Judzińska², M. Midali¹, M. Serafini¹, M. Stępnik², K. Audouze³, D. Deepika⁴, T. Hofer⁵, C. Ibanez⁶, T. Jaymay³, A. Karakoltzidis⁷, S. Kumar⁴, V. Kumar⁴, O. Laurent⁶, C. Mandin⁶, O. Myhre⁵, N. Papaioannou⁷, E. Renieri⁷, D. R. Schultz⁷, A. Stratidakis⁸, M. Torrente⁴, and M. W. Wojewodzik⁵. ¹Università degli Studi di Milano, Milano, Italy; ²University of Gdansk, Gdansk, Poland; ³University Paris Cité, Inserm, Health Fex, Paris, France; ⁴Pere Virgili Institute for Health Research, TecnaTox, Universitat Rovira i Virgili, Tarragona, Spain; ⁵Norwegian Institute of Public Health, Oslo, Norway; ⁶Autorité de Sûreté Nucléaire et de Radioprotection, Fontenay-aux-Roses cedex, France; ⁷Aristotle University of Thessaloniki, Thessaloniki, Greece; and ⁸University School for Advanced Study (IUSS), Pavia, Italy.

Tuesday, March 24, 9:15 AM to 11:45 AM, Exhibit Hall B, Convention Center

PS Poster Session: New Approach Methods: Computational

Chair(s): Zhoumeng Lin, University of Florida.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 9:15 AM–11:45 AM

Abstract #

- #4010 **Poster Board Number** F482
Defining Best Practices for the Use of Sequence Alignment to Predict Across Species Susceptibility to Inform Taxonomic Domain of Applicability Descriptions in the Adverse Outcome Pathway Wiki. R. H. Staub¹, D. Villeneuve², P. Schumann³, J. Frisch³, T. Karschnik³, and C. A. LaLone⁴. ¹ORISE, ORD-CCTE-GLTED-STB, Duluth, MN; ²OCSP-OMCO-RASD, Duluth, MN; ³ORD-CCTE-GLTED, Duluth, MN; and ⁴OCSP-OPPT-CIPTD-TAIB, Duluth, MN.
- #4011 **Poster Board Number** F483
A Novel Approach to Optimizing the Efficiency of Chemical Toxicity Testing Using Multi-Task Chemical Embeddings and Active Learning. N. J. Wichrowski¹, S. L. Grady¹, M. V. Clemens-Sewall¹, K. K. Rao¹, J. Y. Liu¹, C. L. Richardson¹, S. Ton¹, S. M. Klimkiewicz¹, J. D. Resnik¹, J. G. Showalter¹, Y. Chushak^{2,3}, A. J. Keebaugh^{2,4}, T. R. Sterner^{2,3}, and R. A. Clewell^{2,5}. ¹The Johns Hopkins University Applied Physics Laboratory, Laurel, MD; ²Air Force Research Laboratory, Wright-Patterson AFB, OH; ³Henry M. Jackson Foundation for the Advancement of Military Medicine, Inc., Wright-Patterson AFB, OH; ⁴BlueHalo an AV company, Dayton, OH; and ⁵Eagle Integrated Services, Inc., Wright-Patterson AFB, OH.
- #4012 **Poster Board Number** F484
Re-Thinking Chemical Toxicity: From Structural Alerts to Thresholds of Concern. S. Chakravarti, and M. Girireddy. MultiCASE Inc, Mayfield Heights, OH.
- #4013 **Poster Board Number** F485
Investigating the feasibility of deriving new environmentally relevant Thresholds of Toxicological Concern (TTCs) from estimated human equivalent benchmark dose (eBMD_{HED}) values. G. Patlewicz¹, A. Mihalchik¹, C. M. Thompson², A. East³, and S. Borghoff¹. ¹ToxStrategies, Durham, NC; ²ToxStrategies, Houston, TX; and ³ToxStrategies, Asheville, NC.
- #4014 **Poster Board Number** F486
Automating Structure-Based Analogue Selection for Read Across: The Power of Matched Molecular Pairs. M. Irshad¹, E. Byrd², L. Reinsalu², and C. Lester². ¹The University, Cincinnati, OH; and ²The Procter & Gamble Company, Mason, OH.
- #4015 **Poster Board Number** F487
Integrating Structural and Mechanistic Evidence to Select Relevant Analogs for Read-Across Assessment. T. Chan¹, G. Hilton², A. Goetz³, and A. Karmaus³. ¹Texas A&M University, College Station, TX; ²PETA Science Consortium International e.V., Greensboro, Germany; and ³Syngenta Crop Protection LLC, Greensboro, NC.
- #4016 **Poster Board Number** F488
Physiologically Based Kinetic Model of Dibutyl Phthalate and Reproductive Hormones in Female Mice. I. Chagolla¹, J. P. Sluka², Q. Zhang³, N. Biomi¹, G. Jiang¹, Z. R. Craig⁴, M. Zelinski⁵, A. J. Krieg⁵, and K. H. Watanabe¹. ¹Arizona State University, Glendale, AZ; ²Indiana University, Bloomington, IN; ³Emory University, Atlanta, GA; ⁴University of Arizona, Tucson, AZ; and ⁵Oregon National Primate Research Center, Beaverton, OR.

- #4017 **Poster Board Number** F489
FINs: An Interactive Platform for Automated Zebrafish Image Analysis and Morphological Screening. A. Tandon¹, A. B. Oktay¹, E. McAfee¹, L. Truong², A. J. Green¹, B. E. Howard¹, R. L. Tanguay², and R. R. Shah¹. ¹Sciome LLC, Research Triangle Park, NC; and ²Oregon State University, Corvallis, OR.
- #4018 **Poster Board Number** F490
Targeting TLR4 and NLRC3: Computational Modeling Reveals Immunotoxic Mechanisms and Nutraceutical Solutions in Farmed Catfish. R. Kondatti, M. Contin Ortega, and S. Batra. Southern University and A&M College, Baton Rouge, LA.
- #4019 **Poster Board Number** F491
An Integrated Microbial Remediation and Physiologically Based Toxicokinetic (PBTk) Model of Polychlorinated Dibenzo-*p*-Dioxin and Dibenzofurans. C. Song¹, D. Islam², S. A. Hashsham², and Q. Zhang³. ¹Lexington High School, Lexington, MA; ²Michigan State University, East Lansing, MI; and ³Emory University, Atlanta, GA.
- #4020 **Poster Board Number** F492
Molecular Modeling and Lung Cell Studies Uncover PFOS-Induced Ribosomal Stress and Metabolic Dysregulation. G. Dupre, R. Kondati, M. Thakur, and D. Mutyala. Southern University and A&M College, Baton Rouge, LA.
- #4021 **Poster Board Number** F493
Simulation of the uptake, metabolism and bioavailability of highly lipophilic constituents in petroleum fuels and oils. M. W. Linakis¹, H. J. Clewell III¹, J. L. Campbell Jr.¹, P. R. Gentry², and A. D. Redman³. ¹Ramboll US Consulting, Inc., Raleigh, NC; ²Ramboll US Consulting, Inc., Monroe, LA; and ³ExxonMobil Biomedical Sciences, Inc., Annandale, NJ.
- #4022 **Poster Board Number** F494
Physiologically-Based Quantitative System Toxicology Thyroid Hormones Modeling Platform: Species-dependent Thyroid Hormone Changes by Test Substances in Rats and Humans. B. Riffle¹, P. Balazki², R. Lesage², E. Fabian³, S. Melching-Kollmuss⁴, S. Stinchcombe⁵, and R. Landsiedel³. ¹BASF Agricultural Solutions US LLC, Research Triangle Park, NC; ²ESQlabs GmbH, Saterland, Germany; ³BASF SE, Experimental Toxicology and Ecology, Ludwigshafen, Germany; ⁴BASF SE, Global Toxicology, Agriculture Solutions, Limburgerhof, Germany; and ⁵BASF SE, Global Toxicology, Agriculture Solutions, Limburgerhof, Germany.
- #4023 **Poster Board Number** F495
Unifying *In Vitro* Kinetics and Open-Source Mechanistic Modeling to Accelerate Informed Decision-Making in Dermal Disposition Assessments. J. Troutman¹, S. Engled¹, C. Ellison¹, A. Hamadeh², and A. Edginton². ¹Procter & Gamble Company, Mason, OH; and ²University of Waterloo, Waterloo, ON, Canada.
- #4024 **Poster Board Number** F496
Interrogating Sidechain Dihedral Correlation and Essential Motion as Predictors of Multi-Kinase Specificity Using Imatinib as a Model System. W. Troxel, E. Vig, and C. A. Chang. University of California - Riverside, Riverside, CA. Sponsor: L. Zhao
- #4025 **Poster Board Number** F497
Using a Machine Learning QSAR Model to Predict the Half-Life of Organofluorine Pharmaceuticals. J. M. Gardella, A. D. Blanchette, and A. K. Madl. Valeo Sciences, Ladera Ranch, CA.
- #4026 **Poster Board Number** F498
Leveraging Historical Control Data to Identify Covariates in 28-Day Repeated Dose Toxicity Studies. N. Becker¹, M. Dammann¹, K. Becker¹, F. M. Kluxen², J. Cairns¹, D. Funk-Weyer¹, C. Gomes¹, R. Buesen¹, and M. Dilger¹. ¹BASF SE, Ludwigshafen, Germany; and ²BASF SE, Limburgerhof, Germany. Sponsor: D. Funk-Weyer, EUROTOX
- #4027 **Poster Board Number** F499
Leveraging Grouping Approaches to Strengthen Read-Across Decision-Making. F. Sweder Gold, M. L. Chilton, J. D. Vessey, and G. Kocks. Lhasa Limited, Leeds, United Kingdom.

- #4028 **Poster Board Number F500**
Optimizing *in Silico* Approaches to Assess the Likelihood of Nitrosylation of Cysteine Residues. *N. Abdelfattah, C. Guo, and A. Gow.* Ernest Mario School of Pharmacy, Rutgers University, New Brunswick, NJ.
- #4029 **Poster Board Number F501**
Large Scale RNA-seq Dataset Demonstrates Distinct Gene Expression Profiles between Airway Tissue Types and *Ex Vivo* Culturing Methods. *T. Smyth, P. Clapp, and I. Jaspers.* UNC Chapel Hill, Chapel Hill, NC.
- #4030 **Poster Board Number F502**
Dosimetry Models of Inhaled Flavoring Compounds in ENDS Aerosols and Estimation of Tissue Concentrations in the Mouse and Human Respiratory Tracts. *T. Antonijevic¹, M. Moreau¹, J. Zhang², and M. Gutierrez².* ¹ScitoVation, LLC, Durham, NC; and ²Altria Client Services, LLC, Richmond, VA.
- #4031 **Poster Board Number F503**
Computational Modeling of *In Vitro* Antral Follicle Growth and Steroidogenesis as a New Approach Methodology in Reproductive Toxicology. *J. P. Sluka¹, K. Watanabe², Q. Zhang³, A. J. Krieg⁴, M. Zelinski⁴, and Z. R. Craig⁵.* ¹Indiana University, Bloomington, IN; ²Arizona State University, Phoenix, AZ; ³Emory University, Atlanta, GA; ⁴Oregon National Primate Research Center, Beaverton, OR; and ⁵University of Arizona, Tucson, AZ.
- #4032 **Poster Board Number F504**
Identifying Key Neurodevelopmental Processes to Efficiently Prioritize Known Developmental Neurotoxicants. *J. Hsieh¹, S. Marvel¹, H. Hogberg², and C. McPherson³.* ¹Predictive Toxicology Branch, Division of Translational Toxicology (DTT), National Institute of Environmental Health Sciences (NIEHS), National Institutes of Health (NIH), Research Triangle Park, NC; ²National Toxicology Program Interagency Center for the Evaluation of Alternative Toxicological Methods (NICEATM), DTT, NIEHS, NIH, Research Triangle Park, NC; and ³Mechanistic Toxicology Branch, DTT, NIEHS, NIH, Research Triangle Park, NC.
- #4033 **Poster Board Number F505**
Development of Machine Learning Models to Predict Blood Brain Barrier Permeability of Chemicals. *Y. Chushak^{1,2}, T. R. Sterner^{1,2}, and R. A. Clewell^{3,2}.* ¹Henry M. Jackson Foundation for the Advancement of Military Medicine, Inc., Wright-Patterson AFB, OH; ²711th Human Performance Wing, Air Force Research Laboratory, Wright-Patterson AFB, OH; and ³Eagle Integrated Services, Inc., Wright-Patterson AFB, OH.

Tuesday, March 24, 9:15 AM to 11:45 AM, Exhibit Hall B, Convention Center

PS **Poster Session: Safety Assessment: Pharmaceutical—Drug Development I**

Chair(s): Manoj Aggarwal, Merck & Co. Inc.; and Elena Chung, Genentech Inc.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 9:15 AM–11:45 AM

Abstract #

- #4034 **Poster Board Number** **G508**
Industry Perspectives on Evolving Off-Target Assessment: Insights from a Multicompany IQ DruSafe Survey. D. Zane¹, B. Berengere², A. Lagrutta³, C. Larner⁴, A. Olaharski⁵, V. Toledo Sales⁶, F. Schmidt⁷, J. Valentin⁸, and S. Mittelstadt⁹. ¹Gilead Sciences, Foster City, CA; ²Novartis Biomedical Research, Basel, Switzerland; ³Merck & Co. Inc, West Point, PA; ⁴AstraZeneca, Cambridge, United Kingdom; ⁵Relay Therapeutics, Cambridge, MA; ⁶Takeda Pharmaceuticals, Cambridge, MA; ⁷Sanofi, Frankfurt, Germany; ⁸UCB, Brussels, Belgium; and ⁹Abbvie Inc, North Chicago, IL.
- #4035 **Poster Board Number** **G509**
Preclinical Safety Assessment of Targeted Protein Degraders: Current Practices and Considerations. A. Sedgwick¹, Z. Rankovic², S. Karaman³, and S. Targeted Protein Degradation Safety Committee⁴. ¹Vividion Therapeutics, San Diego, CA; ²Institute of Cancer Research, London, United Kingdom; ³Novartis, Cambridge, MA; and ⁴Health and Environmental Sciences Institute, Washington, DC.
- #4036 **Poster Board Number** **G510**
Development of a Population Pharmacokinetic Model to Optimize Florfenicol Dosing for Treating Lactating and Non-Lactating Goats. X. Wu¹, K. Mi¹, L. A. Tell², and Z. Lin¹. ¹University of Florida, Gainesville, FL; and ²University of California, Davis, CA.
- #4037 **Poster Board Number** **G511**
Rigorously Optimized Immunohistochemistry Methods Support Robust Assessment of Pharmacodynamic Effects in African Green Monkeys. R. Bouffard, E. Ramirez, M. Miles, S. Korte, E. Hines, N. Swierczawski, G. Jalalahmadi, M. Lawrence, and I. Mikaelian. Virscio, New Haven, CT.
- #4038 **Poster Board Number** **G512**
Assessing Fibrosis: Picrosirius Red and COL1A1 Immunohistochemistry as Alternatives to Masson's Trichrome Staining. I. Hernandez, E. Ramirez, R. Bouffard, E. Hines, G. Jalalahmadi, N. Swierczawski, S. Korte, M. Lawrence, and I. Mikaelian. Virscio, New Haven, CT.
- #4039 **Poster Board Number** **G513**
A Sliding Scale to Evaluate Safety Margins for Drugs with a Long Half-life: Oteseconazole, A Case Study. R. Gee, S. Brand, J. Jennings, and T. Degenhardt. Mycovia Pharmaceuticals, Inc., Durham, NC. Sponsor: M. Aleo
- #4040 **Poster Board Number** **G514**
Implementation of the Modified Irwin Test as a General Functional Observation Battery for the African Green Monkey. S. Korte, R. Hancock, R. Pike, K. Cruz, I. Castor-Colmanar, C. Anselm, R. St Hilaire, and M. Lawrence. Virscio, New Haven, CT.

- #4041 **Poster Board Number G515**
Cardiovascular and Respiratory Safety Pharmacology Study of Mitragynine in Telemetered Dogs. M. Durai¹, T. Horn², C. McCurdy³, A. Sharma³, A. Hampson⁴, J. Donnelly⁴, and P. Terse¹. ¹National Center for Advancing Translational Sciences (NIH), Rockville, MD; ²IITRI, Chicago, IL; ³University of Florida, Gainesville, FL; and ⁴National Institute on Drug Abuse (NIH), Bethesda, MD.
- #4042 **Poster Board Number G516**
Preclinical Toxicity Assessment of IS-002, a Novel Imaging Agent, in the 7-Day Toxicity Study. K. Kabirov¹, J. Fischer¹, A. Zakharov¹, S. Dutta², A. Antaris², K. Hleb², and A. Lyubimov¹. ¹Toxicology Research Laboratory, UIC, Chicago, IL; and ²Intuitive Fluorescent Imaging, Sunnyvale, CA.
- #4043 **Poster Board Number G517**
Pulmonary injury and resulting hypoxia as a mechanism of hemangiosarcoma induction in mice treated with amiselimod, a sphingosine-1-phosphate receptor 1 modulator. M. Mizukawa, M. Miyake, S. Nishikawa, and T. Yamamoto. Tanabe Pharma Corporation, Fujisawa, Japan. Sponsor: S. Nishikawa, Japanese Society of Toxicology
- #4044 **Poster Board Number G518**
CSTF2/2T CELMoD Degradors and Double Knockout Studies: On-Target Toxicological Liabilities. V. Bhaskaran¹, J. Nicklay¹, J. Zalaznick¹, E. Ciccamaro¹, S. Wagh², A. Jadhav², Y. Cho², K. DiPetrillo³, D. Johnson⁴, T. Tsuji⁴, M. Ammirante⁴, N. Katenahalli⁵, and K. Augustine¹. ¹Bristol-Myers Squibb, Princeton, NJ; ²Bristol-Myers Squibb, Cambridge, MA; ³Bristol-Myers Squibb, New Brunswick, NJ; ⁴Bristol-Myers Squibb, San Diego, CA; and ⁵Biocon, Bengaluru, India.
- #4045 **Poster Board Number G519**
A Case of Cardiac Myocyte Degeneration in Cynomolgus Monkey with characteristic Concentric change of myofiber cross section: a histopathological case study from a safety assessment perspective. A. Morita, A. Goto, Y. Seki, and E. Ohta. Eisai Co., Ltd., Tsukuba, Ibaraki, Japan. Sponsor: S. Asakura
- #4046 **Poster Board Number G520**
Body weight loss without reduction in food consumption observed in cynomolgus monkeys during non-clinical toxicity studies. K. Takahashi, N. Hike, H. Ogura, T. Okamura, D. Yamamoto, and J. Sato. Mediford Corporation, Kamisu, Japan. Sponsor: K. Takahashi, Japanese Society of Toxicology
- #4047 **Poster Board Number G521**
Method Qualification for the determination of Total antibody, ADC and free payload from ADC using LC-MS/MS. Y. Zhong, and M. M. Xu. Pharmaron (Ningbo) Bioscience Services Co., Ltd., Ningbo City, Zhejiang Province, China. Sponsor: S. Luo
- #4048 **Poster Board Number G522**
Antisense oligonucleotides (ASOs) for gene therapy: A retrospective analysis of toxicology and safety pharmacology study designs and class effects. C. Pinêtre¹, S. Authier¹, S. Quilez¹, C. Beaulieu¹, C. Paquette¹, D. Mayameei¹, S. Bulera², and K. Wong¹. ¹Charles River Laboratories, Laval, QC, Canada; and ²Charles River Laboratories, Reno, NV.
- #4049 **Poster Board Number G523**
Establishing Delivery Routes and Volumetric Compartment Measurements for Nonclinical Pediatric Antisense Oligonucleotides Assessment using Repeated Administration in Intrathecal Port Catheterized 3- and 12-Month Old African Green Monkeys. E. Oyarzabal, S. Korte, and M. Lawrence. Virscio, New Haven, CT.
- #4050 **Poster Board Number G524**
Impact of Target Sequence and Pretreatment Conditions on ddPCR-Based Quantification of AAV Dosing Formulations. N. Kaname, S. Lee, Y. Okawa, S. Uehara, S. Nakazono, Y. Arimura, A. Suzuki, N. Ijichi, H. Inoue, A. Uchiyama, and T. Yoshikawa. SNBL, Kagoshima, Japan.

- #4051 **Poster Board Number G525**
Evaluation of Intravenous Oncolytic Virus Delivery in a Hamster Syngeneic Pancreatic Cancer Model. H. Lu¹, N. G. Chen², H. J. Wang², H. Wu³, L. Wei³, Q. Ren³, A. Yang³, P. Wang¹, B. Liu¹, and S. Luo¹. ¹Pharmaron (Ningbo) Bioscience Services Co., Ltd., Ningbo City, Zhejiang Province, China; ²ViroMissile, Inc., La Jolla, CA; and ³Xihua Scientific Co., Ltd., Shanghai, China.
- #4052 **Poster Board Number G526**
Risk Assessment of Germline Transmission for Gene Therapy Drugs. X. Zhao, Z. Li, N. Wei, Y. Dong, and Q. Wang. Safe Pharmaceutical Services Corp, Great Falls, VA. Sponsor: X. yang
- #4053 **Poster Board Number G527**
Application and Case Sharing of Disease Model Animals in Toxicology Studies of Gene-Edited Cell Therapies. X. Li, N. Wei, Z. Li, X. Gao, and Y. Dong. Safe Pharmaceutical Services Corp, Herndon, VA. Sponsor: X. Yang
- #4054 **Poster Board Number G528**
Toxicologic Profiles of Lipid Nanoparticle (LNP) used as Delivery Systems for Nucleic Acid Therapeutics in Cynomolgus Monkeys: Insights from Cross-Study Analysis of Various LNP Formulations. Y. Chen¹, T. Arndt¹, E. Debien¹, K. Snyder², S. Nakatsuji¹, J. Forget¹, and W. Davis¹. ¹Altasciences, Seattle, WA; and ²Certara, Radnor, PA.
- #4055 **Poster Board Number G529**
Assessment of Lipid Nanoparticles Caused Side Effects in Preclinical Studies in Non-human Primates. L. Zhang¹, S. Zhang¹, and Y. Zhang². ¹JOINN Laboratories, Suzhou, China; and ²JOINN Laboratories, Beijing, China.
- #4056 **Poster Board Number G530**
Non-Clinical Safety Evaluation of Exosomes derived from Human Adipose Tissue-Derived Mesenchymal Stem/Stromal Cells. J. Lee¹, B. Cho¹, B. Son¹, M. Kang¹, H. Lee¹, S. Moon¹, E. Shin¹, H. Choi¹, K. Lee¹, D. Ha¹, S. Cui², S. Yoon², E. Park², and S. Kim². ¹ExoCoBio Exosome Institute (EEI), ExoCoBio Inc, Seoul, Korea, Republic of; and ²Nonclinical Clinical Institute, CORESTEMCHEMON Inc, Yong In, Korea, Republic of.
- #4057 **Poster Board Number G531**
Predicted Liver Safety of GlyphAgo, a Lymphatic Targeted Prodrug of Agomelatine That Avoids First-Pass Hepatic Metabolism. D. K. Bonner¹, J. S. Simpson¹, S. Tyler¹, R. Miller^{1,2}, L. Shoda³, and M. Chen¹. ¹Seaport Therapeutics, Boston, MA; ²Apex Drug Discovery and Innovation Strategies, Apex, NC; and ³Simulations Plus, Research Triangle Park, NC. Sponsor: L. Shoda, American Association for the Advancement of Science
- #4058 **Poster Board Number G532**
Assessing the Risk of Adverse Drug Reactions through Safety Margin Analysis: Methodologies and Applications in Polypharmacy. D. Thomas¹, C. Noban², and O. Barberan². ¹Elsevier, Inc., San Diego, CA; and ²Elsevier, Inc., Amsterdam, Netherlands. Sponsor: D. Thomas, International Society for the Study of Xenobiotics
- #4059 **Poster Board Number G533**
In Vitro Cytotoxicity and Genotoxicity Assessment of Pyridinium and Quinuclidinium Oximes using a 3D Human Liver Spheroid Model. I. Vrhovac Madunic¹, K. Fras², J. Madunic¹, M. Katalinic¹, B. Zegura², and M. Stampar². ¹Institute for Medical Research and Occupational Health, Zagreb, Croatia; and ²National Institute of Biology, Ljubljana, Slovenia. Sponsor: I. Vrhovac Madunic, EUROTOX

Tuesday, March 24, 1:45 PM to 4:15 PM, Exhibit Hall B, Convention Center

PS Poster Session: Tobacco, ENDS, and Smoking-Related Toxicology II

Chair(s): Mark Ryan Salazar, University of California Davis; and Shaligram Sharma, UL Research Institute.

Displayed: 9:00 AM–4:30 PM | Author Attended: 1:45 PM–4:15 PM

Abstract #

- #4060 **Poster Board Number G540**
Age accelerates memory deficits in offspring with perinatal electronic cigarette exposure. C. Alkire, N. Ibinson, G. Morales, T. Poling, A. Hurley, D. Lakhani, A. Stewart, P. Chantler, and I. Olfert. West Virginia University, Morgantown, WV.
- #4061 **Poster Board Number G541**
C-reactive protein levels during pregnancy and their association with tobacco product exposure- evidence from the NHANES dataset. B. Gebremariam¹, C. Igwe¹, E. Parker¹, S. Dickinson¹, R. Pepin¹, H. Lin², W. Su³, A. Noël⁴, P. Silveyra¹, and S. Commodore¹. ¹Indiana University, Bloomington, IN; ²San Diego State University, San Diego, CA; ³Baylor University, Waco, TX; and ⁴Louisiana State University, Baton Rouge, LA.
- #4062 **Poster Board Number G542**
Perinatal E-cigarette Exposure Disrupts Lung Function and Germ Cell Development in Offspring. D. Hatai¹, C. Liu¹, Y. Wang², J. Liu², C. Yu², S. Deme¹, S. Silas¹, G. Chandan², S. Madrigal¹, P. Allard¹, and V. Rehan². ¹University of California, Los Angeles, Los Angeles, CA; and ²The Lundquist Institute, Torrance, CA.
- #4063 **Poster Board Number G543**
A preliminary investigation of the maternal and perinatal health effects of electronic cigarette use during pregnancy. S. Stowe, R. Vilcassim, V. Reddy, A. Subramaniam, and R. Sinkey. The University of Alabama at Birmingham, Birmingham, AL.
- #4064 **Poster Board Number G544**
Secondhand E-cigarette exposure induces sex and region-specific lung collagen deposition. A. Martinez-Santos, J. Bautista, D. A. Herman, M. T. Kleinman, A. Jimenez-Chávez, and A. De Vizcaya Ruiz. Department of Environmental and Occupational Health, Joe C Wen School of Public Health, University of California, Irvine, Irvine, CA.
- #4065 **Poster Board Number G545**
Sex-Specific Transcriptomic Responses to Acute and Subchronic E-cigarette Exposure. A. N. Perryman¹, J. A. Masso-Silva¹, W. Gu², L. Sullivan¹, J. McDermott¹, S. Gaboyan¹, N. Kasaraneni¹, H. Chang¹, D. Oliva¹, S. Perrera¹, C. Truong¹, H. Sidhu¹, A. Frounjan¹, I. Advani¹, J. Pham¹, B. Ma¹, A. Castaldi¹, and L. E. Crotty Alexander¹. ¹University of California, San Diego, La Jolla, CA; and ²University of California, San Francisco, San Francisco, CA.
- #4066 **Poster Board Number G546**
Sex differences in regional brain volume changes in adult offspring with *in utero* electronic cigarette exposure. A. Hurley, D. Lakhani, A. Stewart, N. Day, C. Alkire, P. Chantler, and I. Olfert. West Virginia University, Morgantown, WV.
- #4067 **Poster Board Number G547**
Investigating the Sex-Specific Impacts of E-Cigarettes on Humoral Immunity *In Vitro*. V. Jagoo^{1,2}, V. Caruana^{1,2}, N. Kukolj^{1,2}, and K. K. Mann^{1,2}. ¹Department of Pharmacology & Therapeutics, McGill University, Montréal, QC, Canada; and ²Lady Davis Institute, Montréal, QC, Canada.

- #4068 **Poster Board Number G548**
Time to Ovary-Act: Characterizing the Combined Impacts of Menopause and Cigarette Smoking on Vascular Health. H. B. Wilker, A. Dias, A. Vargas, S. Sabnis, G. Kelly, S. Serna-Pemberthy, P. Sarathy, T. Jennings, R. Amini, J. Oakes, and C. Bellini. Northeastern University, Boston, MA.
- #4069 **Poster Board Number G549**
Electronic Cigarette Use During Pregnancy Impairs Uteroplacental Structure and Function. Z. A. Olverson, R. A. Miller, and M. W. Gorr. The Ohio State University, Columbus, OH.
- #4070 **Poster Board Number G550**
Combined Toxicity of E-Cigarette Flavoring Chemicals and Metals in Human Lung Epithelial Cells. E. Kabir, and T. Muthumalage. Purdue University, West Lafayette, IN.
- #4071 **Poster Board Number G551**
Intracellular cannabidiol induces translational repression and stress granules through eIF2alpha phosphorylation in human pulmonary cells. S. Kanno¹, J. M. Otaki¹, S. Hirano², M. Kanie¹, K. Igarashi¹, H. Kato¹, Y. Nakamura¹, and T. Oshima¹. ¹Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan; and ²National Institute for Environmental Studies, Tsukuba, Japan.
- #4072 **Poster Board Number G552**
Induction of Cytotoxicity in A549 Human Lung Carcinoma Cells by Illicit Flavored Disposable E-cigarette Products in the US Market. M. J. Mulcahy, S. E. Davidson, P. A. Jackson, and N. Ivanov. Juul Labs Inc., Mountain View, CA.
- #4073 **Poster Board Number G553**
Enhanced Cytotoxic and Oxidative Stress Responses Induced by 6-Methyl and 4-Methyl Nicotine in Human Bronchial Epithelial Cells. Y. Liu^{1,2}, X. Li^{1,2}, H. Wang^{1,2}, Y. Tian^{1,2}, S. Han^{1,2}, L. Cui^{1,2}, Z. Song^{1,2}, H. Chen^{2,1}, and H. Hou^{2,1}. ¹China National Tobacco Quality Supervision & Test Center, Zhengzhou, China; and ²Beijing Life Science Academy, Beijing, China. Sponsor: S. Jia
- #4074 **Poster Board Number G554**
Electronic Cigarette Aerosols Redirect Human Airway Epithelial Fate Toward Squamous Metaplasia with Partial Reversal After Exposure Cessation. R. Phandthong, E. Rolon, B. Ramirez, M. Kudsi, A. Choi, A. Tahmasbi, Y. Hassan, T. Martinez, and P. Talbot. University of California, Riverside, Riverside, CA.
- #4075 **Poster Board Number G555**
Macrophages Synergistically Enhance the Airway Epithelial Cell Response to E-cigarette Exposure. O. H. Rice¹, T. Sukale¹, M. Trezza¹, and L. A. Miller^{1,2}. ¹California National Primate Research Center, University of California Davis, Davis, CA; and ²Department of Anatomy, Physiology, and Cell Biology, School of Veterinary Medicine, University of California Davis, Davis, CA.
- #4076 **Poster Board Number G556**
Tobacco Harm Reduction: In Vitro Toxicological Assessment of Next Generation Tobacco and Nicotine Products versus Combustible Cigarettes and Smokeless Tobacco. R. Leverette, B. M. Keyser, and B. Ganesh. RAI Services Company, Winston-Salem, NC.
- #4077 **Poster Board Number G557**
Development of the combined oxidative stress and cytotoxicity model in MucilAir tissues for the exposure of cigarette smoke and Heated Tobacco Product aerosols. I. Crooks¹, E. L. Bishop¹, M. Hollings², R. Bedford², and D. Breheny¹. ¹B.A.T. (Investments) Ltd, Southampton, United Kingdom; and ²Labcorp, Harrogate, United Kingdom. Sponsor: R. Leverette

- #4078 **Poster Board Number G558**
PLATELET TRANSCRIPTOMIC ANALYSIS REVEALS DYSREGULATED PATHWAYS AND GENE EXPRESSION PATTERNS AND ENHANCED THROMBOGENICITY IN OFFSPRING MICE EXPOSED TO MATERNAL THRIDHAND E-CIGARETTE. S. Umphres, H. Ali, A. Alarabi, F. Z. Alshbool, and F. T. Khasawneh. Texas A&M University, Kingsville, TX.
- #4079 **Poster Board Number G559**
Serum Surfactant Protein-D is Not Elevated in E-Cigarette Users: Divergent Alveolar Responses Compared to Cigarette Smoking or Too Early To Tell? L. S. Meijer¹, E. Mitchell², A. Perryman², N. Kasaraneni², K. Nicola², J. Masso-Silva^{2,3}, A. Kumar³, S. Karandashova², and L. E. Crotty Alexander^{2,3}. ¹Utrecht University, Utrecht, Netherlands; ²University of California San Diego, La Jolla, CA; and ³VA San Diego Healthcare System, La Jolla, CA.
- #4080 **Poster Board Number G560**
Characterization of breath biomarkers in vapers, smokers, and non-users via a novel breath biopsy method. R. Vilcassim, S. Stowe, A. Chadha, and J. Wickliffe. University of Alabama at Birmingham, Birmingham, AL.
- #4081 **Poster Board Number G561**
Stability of Combustible Cigarettes Gas Vapour Phase Extracts For *In Vitro* Testing. I. Crooks¹, E. Bishop¹, M. Hollings², S. Martin², and D. Breheny¹. ¹B.A.T. (Investments) Ltd, Southampton, United Kingdom; and ²Labcorp, Harrogate, United Kingdom. Sponsor: R. Leverette
- #4082 **Poster Board Number G562**
Preliminary investigation of the chemistry and respiratory toxicology of vaping. X. Zheng^{1,2}, C. Billington¹, J. Powell¹, and M. Glass^{1,2}. ¹PHF Science, Christchurch, New Zealand; and ²University of Otago, Dunedin, New Zealand. Sponsor: M. Howes
- #4083 **Poster Board Number G563**
Developing a multi-task quantitative structure-activity relationship (QSAR) model for the prediction of e-cigarette emissions toxicity. A. Canchola¹, K. Chen¹, M. Rahman², L. Tran¹, W. Woo¹, L. Tian¹, Y. Lin¹, and W. Chou¹. ¹University of California, Riverside, Riverside, CA; and ²University of Minnesota, Duluth, Duluth, MN.
- #4084 **Poster Board Number G564**
Emissions characterization and modelled dosimetry estimates from ultrasonic Ecig and IQOS devices. L. Shouldis, I. Olfert, and A. Ranpara. West Virginia University, Morgantown, WV.
- #4085 **Poster Board Number G565**
Substantially Equivalent and Equally Addictive: The Case of Cool Non-menthol Cigarettes in California. A. Adeniji¹, S. Atai¹, S. V. Jabba², B. Henderson³, T. L. Wagener¹, M. C. Brinkman¹, A. P. Tackett¹, and A. El Hellani¹. ¹The Ohio State University, Columbus, OH; ²Duke University, Durham, NC; and ³Marshall University, Huntington, WV.
- #4086 **Poster Board Number G566**
Applicability of USP-1664, ICH-Q3E and ISO 10993-17 Standards to the Toxicological Risk Assessment of Leachables from Illicit ENDS Product: A Case Study. V. Kannappan. Juul Labs, Washington, DC. Sponsor: V. Kannappan, Society of Environmental Toxicology and Chemistry

PS Poster Session: Pesticides

Chair(s): Ashley Brinkman, Central Garden and Pet Company.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 1:45 PM–4:15 PM

Abstract #

- #4087 **Poster Board Number H568**
Pesticide exposure and placental circadian phase using transcriptomics. *Y. Wang*¹, D. Wallace¹, P. Panuwet², N. Fiedler³, T. Prapamontol⁴, P. Suttiwan⁵, W. Naksen⁴, D. Barr¹, C. Lesseur⁶, J. Chen⁶, and C. Marsit¹. ¹Emory University, Atlanta, GA; ²Massachusetts Department of Environmental Protection, Worcester, MA; ³Rutgers University School of Public Health, Piscataway, NJ; ⁴Chiang Mai University, Chiang Mai, Thailand; ⁵Chulalongkorn University, Bangkok, Thailand; and ⁶Icahn School of Medicine at Mount Sinai, New York, NY.
- #4088 **Poster Board Number H569**
Phenotypically Anchored Transcriptomics Across Diverse Agrichemicals Reveals Conserved Pathways and Unique Gene Expression Signatures in Zebrafish. *L. St. Mary*. Exponent, Natick, MA.
- #4089 **Poster Board Number H570**
Exploring the Toxicological Effects of Commonly Sold Pesticides on Non-Target Organisms and Human Health. C. Grayson, L. Alford, and A. Chaudhuri. Stillman College, Tuscaloosa, AL.
- #4090 **Poster Board Number H571**
Toxicological Assessment of BCS-BT38895: A Novel Aniline Metabolite of Diflufenican. *M. McCool*¹, *D. Geter*¹, and *A. Hueser*². ¹Bayer CropScience, Chesterfield, MO; and ²Bayer Aktiengesellschaft, Monheim, Germany.
- #4091 **Poster Board Number H572**
The limitations of alternative approaches for predicting irritation and sensitization hazards of solid agrochemical formulations. *J. Henriquez*¹, *P. Santos*¹, *P. Deford*¹, *R. Dee*¹, *V. Kumar*², and *E. Bianchi*¹. ¹Corteva Agriscience, Zionsville, IN; and ²Corteva Agriscience, Hyderabad, India.
- #4092 **Poster Board Number H573**
Modulation of Organophosphate Metabolism and Toxicity via NRF2 Signaling. *S. Preston*, *M. Garcia-Mares*, A. Bartman, D. Martin, and J. Doorn. University of Iowa, Iowa City, IA.
- #4093 **Poster Board Number H574**
Reconsidering the use of repeat dose dermal toxicity study for agrochemical risk assessment. A. Elizalde Velazquez, A. Goetz, A. Karmaus, C. Schlosser, B. Jackson, and J. Yan. Syngenta Crop Protection, LLC, Greensboro, NC.
- #4094 **Poster Board Number H575**
90-day dog study for crop protection active substance toxicity testing program. *T. Syeda*, D. Anderson, *J. Henriquez*, K. Stebbins, and *M. DeLorme*. Corteva Agriscience, Indianapolis, IN.
- #4095 **Poster Board Number H576**
Utilizing Toxicogenomics to Identify a Mechanistic Hypothesis for Species Differences in Toxicity Studies. *A. H. Hofstra*¹, D. E. Cowie², R. A. Currie², A. Kende², M. Yin², and C. C. Lord³. ¹Syngenta Canada Inc, Guelph, ON, Canada; ²Syngenta, Bracknell, United Kingdom; and ³Syngenta Crop Protection LLC, Greensboro, NC.

#4096	Poster Board Number H577 Quantifying Military and Non-Military Pesticide Exposure is US Veterans Using a Cumulative Exposure Index (CEI). A. Doepker ¹ , N. Rattray ² , E. Zauber ³ , J. Cannon ¹ , and E. Wells ¹ . ¹ Purdue University, West Lafayette, IN; ² Richard L. Roudebush Veterans' Administration, Indianapolis, IN; and ³ Indiana University School of Medicine, Indianapolis, IN.
#4097	Poster Board Number H578 Rabbit Developmental Toxicity Studies: Are They Needed for Agrochemical Pesticides? E. L. House ¹ , J. Henriquez ² , and E. Shipp ³ . ¹ Corteva Agriscience, Newark, DE; ² Corteva Agriscience, Indianapolis, IN; and ³ Ramboll, London, United Kingdom.
#4098	Poster Board Number H579 Application of short-term transcriptomic point of departure to inform human health risk assessments in replacement of chronic studies: A case study with a novel insecticide. J. LaRocca, K. Johnston, P. Deford, and C. Beevers. Corteva Agriscience, Indianapolis, IN.
#4099	Poster Board Number H580 Probabilistic Dietary Exposure Analysis of Imidacloprid Residues in Food and Drinking Water: Use of Federal and State Pesticide Residue Monitoring Data for Refining Exposure. S. Tiscione, P. Dodmane, A. Kalashnikova, S. Koshlukova, and S. DuTeaux. California Environmental Protection Agency, Sacramento, CA.
#4100	Poster Board Number H581 Predictive Power of the GHS Mixtures Equation for Determining the Acute Oral Toxicity (LD50) of Spray Adjuvants. N. Bhowmik, P. Le, X. Cheng, V. Singh, N. Verma, and S. DuTeaux. California Department of Pesticide Regulation, Sacramento, CA.
#4101	Poster Board Number H582 Characterizing Pyrethroid Pesticide Exposures in a Longitudinal Children's Cohort Analyzing Dust and Urinary MiRNA Biomarkers. A. B. Riaño, T. Workman, W. C. Griffith, J. Marsillach, and E. M. Faustman. University of Washington, Seattle, WA.
#4102	Poster Board Number H583 Weight of Evidence (WoE) Approach Based Assessment of Skin Irritation from Antimicrobial Cleaning Products Using the Phenion Full-Thickness Human Skin Model. N. Bhowmik, N. Verma, and S. Deteaux. California Environmental Protection Agency, Sacramento, CA.
#4103	Poster Board Number H584 Sex-Specific Disruption of Gut Microbial Communities Link with Altered Liver Gene Expression in Acute Exposure to Azoxystrobin. L. Duan, and C. A. Gaulke. UIUC, Urbana, IL. Sponsor: J. Flaws
#4104	Poster Board Number H585 Assessing Impacts of Aldicarb Exposure on Gut Microbial Communities. J. Wanyama, and C. A. Gaulke. University of Illinois at Urbana-Champaign, Urbana, IL. Sponsor: J. Flaws
#4105	Withdrawn.

Tuesday, March 24, 9:15 AM to 11:45 AM, Exhibit Hall B, Convention Center

PS **Poster Session: New Approach Methods: *In Vitro* II**

Chair(s): Michael Bachelor, Boston Scientific Corporation; and Jennifer Zhang, Corteva Agriscience.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 9:15 AM–11:45 AM

Abstract #

- #4106 **Poster Board Number** H588
Knockout of TNIP1 Protein in HaCaT Human Keratinocytes Provides a NAM Platform for Gene-Environment Interactions in Psoriasis. *M. L. Samulevich*¹, L. E. Carman¹, J. Harney², A. K. Kopec², and B. J. Aneskievich¹. ¹University of Connecticut, Department of Pharmaceutical Sciences, Storrs, CT; and ²Pfizer Inc., Investigative Toxicology, Drug Safety Research & Development, Groton, CT.
- #4107 **Poster Board Number** H589
New Approach Methodologies for Photoallergy: Results of a Set of Reference Photoallergens in the Photo-DPPA, Photo-Keratinosens, and Photo h-CLAT. *G. Ritacco*¹, A. Hilberer², A. Islas-Robles², K. Bouchard², J. Philips², C. Deodhar¹, D. Botelho¹, and A. Api¹. ¹Research Institute for Fragrance Materials, Mahwah, NJ; and ²Institute for In Vitro Sciences, Gaithersburg, MD.
- #4108 **Poster Board Number** H590
Use of New Approach Methodology to Assess Inhalation Toxicity Risk from Three Ingredients in Pesticide Products. *T. G. Osmits*¹, R. Corley², S. Constant³, G. Arib³, and W. Droege¹. ¹Science Strategies, LLC, Salt Lake City, UT; ²Greek Creek Toxicokinetics Consulting, LLC, Boise, ID; and ³Epithelix Sàrl, Plan-les-Ouates, Switzerland.
- #4109 **Poster Board Number** H591
hTERT/SV40Tag-immortalized human hepatocytes preserves functional and transcriptomic integrity for molecular toxicology applications. S. Bera¹, B. L. Pierce², and D. V. Griend¹. ¹University of Illinois at Chicago, Chicago, IL; and ²University of Chicago, Chicago, IL. Sponsor: *G. Prins*
- #4110 **Poster Board Number** H592
An *In Vitro* Self-Renewing Human Intestinal Epithelium for Evaluation of Gut Toxicity and Repair. *M. Bunger*, A. Spreen, L. Boone, and L. Boazak. Altis Biosystems, Durham, NC.
- #4111 **Poster Board Number** H593
Microengineered 3D Vascular Injury Model for Immune-Mediated Drug Toxicity Assessment. *E. Wang*^{1,2}, C. Kamperschroer¹, K. Adkins¹, Q. Smith², P. Bajaj¹, and D. Soni¹. ¹Global Investigative Toxicology, Preclinical Safety, Sanofi, Cambridge, MA; and ²University of California, Irvine, Irvine, CA.
- #4112 **Poster Board Number** H594
Assessment of Endothelial Network Formation and Immune-Endothelial Cell Interactions Using Different Commercially-Available Microphysiological Vascular Devices. *H. Jesse*¹, C. Sakolish¹, R. Villenave², P. Hewitt³, and I. Rusyn¹. ¹Texas A&M University, College Station, TX; ²Roche Pharma Research and Early Development, Basel, Switzerland; and ³Merck KGaA, Darmstadt, Germany.

- #4113 **Poster Board Number** H595
Bridging the Gap Between *In Vitro* Models and Human Physiology: The Advantages of HUB's Intestinal Patient-Derived Organoids in Toxicology. A. Merenda, M. Derksen, J. Frias Aldeguer, Y. Hendriksen, M. Statia, F. Pourfarzad, R. G. Vries, S. Boj, and S. Rittchen. HUB Organoids B.V., Utrecht, Netherlands. Sponsor: S. Boj, American Association for Cancer Research
- #4114 **Poster Board Number** H596
Comparative Toxicity of Alkylated and Parent Polycyclic Aromatic Hydrocarbons in Primary Human Bronchial Epithelial Cells. M. Allison^{1,2}, J. M. Pennington¹, R. M. Valdez^{1,2}, V. C. Colvin^{1,2}, D. J. Degnan³, B. N. Rivera^{1,2}, K. M. Waters^{3,1,2}, D. Rohlman^{1,2}, and S. C. Tilton^{1,2}. ¹Oregon State University, Corvallis, OR; ²Superfund Research Program, Corvallis, OR; and ³Pacific Northwest National Laboratory, Richland, WA.
- #4115 **Poster Board Number** H597
A New Approach Methodology (NAM) Emphasizes hypothesis-driven Experimental Timing for Air-liquid Interface Studies: A Proof-of-Concept Investigation Using Human Primary Bronchial Basal Stem Cells. F. Effah, Y. Sun, R. Raghu, G. Kaur, and I. Rahman. University of Rochester Medical Center, Rochester, NY.
- #4116 **Poster Board Number** H598
Comprehensive *In Vitro* Safety Assessment of Acorus calamus Rhizome Oil Using OECD Compliant New Approach Methods. K. R. Desai¹, R. M. Nagane¹, J. R. Ranade¹, M. V. Patel¹, C. S. Roper², A. D. Deshpande¹, and G. Babu K³. ¹Jai Research Foundation, Vapi, Gujarat, India; ²Roper Toxicology Consulting Limited, Edinburgh, United Kingdom; and ³Parul University of Applied Sciences, Vadodara, Gujarat, India.
- #4117 **Poster Board Number** H599
Predicting gastrointestinal toxicity using the assay-ready, primary-derived OrganoReady® Colon Organoid model. S. Shafiei, B. Duggan, M. Cuijpers, K. Liu, M. Morelli, I. Joore, M. Haarmans, K. Kosim, L. van den Broek, P. Hombrink, and S. Trietsch. MIMETAS B.V, Oegstgeest, Netherlands. Sponsor: S. Kundu
- #4118 **Poster Board Number** H600
A Ready-to-Use 3D Human Blood Vessel model for Scalable Assessment of Endothelial Toxicity and Immune Activation. G. Rabussier, K. Liu, C. Clavijo, J. Heijmans, I. Joore, B. Kramer, L. Gijzen, and P. Hombrink. MIMETAS B.V, Oegstgeest, Netherlands. Sponsor: S. Kundu
- #4119 **Poster Board Number** H601
Impact of Dose Metric Selection on Transcriptomic Point of Departure (tPoD) Derivation in *In Vitro* Toxicology. R. A. Currie, S. Payvandi, Y. Adeleye, J. Feltham, and K. Rudd. Syngenta, Bracknell, Berkshire, United Kingdom.
- #4120 **Poster Board Number** H602
Unidirectional, pumpless, scalable: Perfusable vascular networks with long-term stability using a gravity driven microfluidic system. A. Rodrigues, S. de Ruiter, C. Clavijo, T. Olivier, A. Dalaud, W. Allen, I. Schilt, S. Trietsch, L. van den Broek, and T. Burton. MIMETAS B.V, Oegstgeest, Netherlands. Sponsor: S. Kundu
- #4121 **Poster Board Number** H603
Integration of Incucyte analytics and multi-organ toxplate (kidney, Small intestine, and Liver) for NAMS-based hazard and risk assessment of compounds. S. Ayehunie¹, J. Finelli¹, M. Mayo¹, P. Keselman², S. Letasiova³, and A. Armento¹. ¹MatTek Now Part of Sartorius, Ashland, MA; ²Sartorius Stedim North America, Ann Arbor, MI; and ³MatTek Europe, Bratislava, Slovakia.
- #4122 **Poster Board Number** H604
Effects of per- and polyfluoroalkyl substances on molecular initiating events of cholestatic liver injury. A. Maerten¹, E. Callewaert¹, J. Sanz Serrano¹, L. Devisscher², and M. Vinken¹. ¹Vrije Universiteit Brussel, Brussels, Belgium; and ²Universiteit Gent, Gent, Belgium.

- #4123 **Poster Board Number** H605
A real-time, multiplexed assay for evaluating compound-induced disruption of barrier integrity. X. Zhang, and J. Zhang. Agilent Technologies, La Jolla, CA. Sponsor: L. Zhao
- #4124 **Poster Board Number** H606
Cynomolgus iPSC-Derived Neural Models as a Translational NHP *In Vitro* Platform for Preclinical Neurotoxicity Testing and NAM Alignment. S. Dwyer¹, L. Ramirez², K. Kotok^{2,3}, M. Nandi², F. Suchy^{2,4}, N. Rapicavoli², C. Hinckley¹, and M. Roodgar^{2,4}. ¹Biogen, Cambridge, MA; ²Exir Bio, Menlo Park, CA; ³San José State University, San Jose, CA; and ⁴Stanford University, School of Medicine, Stanford, CA.
- #4125 **Poster Board Number** H607
Modeling repeated ENDS exposure response trajectories in adolescents using a co-culture model of the bronchial epithelium. E. A. Huber, H. Kellner, N. McNabb-Kelada, A. Clayton, R. Chartier, and S. D. McCullough. RTI International, Durham, NC.
- #4126 **Poster Board Number** H608
Evaluation of Thyroxine Synthesis in Cryopreserved Primary Human Thyrocytes for Screening Thyroid-Disrupting Chemicals Using ELISA and LC-MS/MS. T. Nguyen-Jones¹, J. McKenna², W. Chen², K. K. Wolf³, T. Stone³, E. Bianchi², J. R. LaRocca², J. Chen¹, E. LeCluyse³, J. Klein¹, and E. Rogers¹. ¹LifeNet Health LifeSciences, Virginia Beach, VA; ²Corteva Agriscience, Indianapolis, IN; and ³LifeNet Health LifeSciences, Research Triangle Park, NC.
- #4127 **Poster Board Number** H609
Bridging Physiological Accuracy and Reproducibility: The EpiVaginal Model Integrated with Simulated Vaginal Fluid. E. Marquesdosreis¹, J. Markus¹, K. Forro², M. Klausner³, T. Landry³, K. Coen³, S. Letasiova¹, K. Kejlova⁴, M. Dvorakova⁴, E. Pácalová⁴, and S. Ayehunie³. ¹MatTek Europe, Bratislava, Slovakia; ²Comenius University, Bratislava, Slovakia; ³MatTek Now Part of Sartorius, Ashland, MA; and ⁴National Institute of Public Health, Prague, Czech Republic.
- #4128 **Poster Board Number** H610
A Mechanistic Add-On to Human DNT NAMs for Detecting Endocrine Disruption via RAR and GR Signaling in Neural Progenitors. K. Schlüppmann¹, L. M. Stark¹, S. Hüsken¹, E. Zühr¹, A. Dönmez^{2,1}, E. Fritsche^{2,1,3,4}, and K. Koch^{2,1}. ¹UF - Leibniz Research Institute for Environmental Medicine, Düsseldorf, Germany; ²DNTOX GmbH, Düsseldorf, Germany; ³SCAHT - Swiss Center for Applied Human Toxicology, Basel, Switzerland; and ⁴Department of Pharmaceutical Sciences, University of Basel, Basel, Switzerland.
- #4129 **Poster Board Number** H611
RosetteArray® Platform for Quantitative High-Throughput Screening of Human Developmental Neurotoxicity and Modeling of Neurodevelopmental Disorders. B. Lundin^{1,2}, G. Knight^{3,1,2}, F. Seipel^{1,2}, N. Fedorchak^{3,1,2}, K. Krucki³, M. Birtele⁴, N. Iyer^{1,2}, J. Robinson⁵, B. Iskandar¹, G. Quadrato⁴, R. Willett^{6,3}, and R. S. Ashton^{1,3,2}. ¹University of Wisconsin-Madison, Madison, WI; ²Wisconsin Institute for Discovery, Madison, WI; ³Neurosetta, Madison, WI; ⁴University of Southern California, Los Angeles, CA; ⁵University of California, San Francisco, San Francisco, CA; and ⁶University of Chicago, Chicago, IL.
- #4130 **Poster Board Number** H612
Innovative Assays for the Characterization of Seizure Liabilities. J. Price, C. Garrison, A. Singanamalli, S. Zhu, X. Li, S. Moore, and K. Augustine. Bristol Myers Squibb, Princeton, NJ.
- #4131 **Poster Board Number** H613
Evaluating luminal-basal cellular plasticity using a dual transduced reporter MCF10A cell line. A. Tapaswi¹, J. Wotring¹, P. Yang², J. Sexton¹, X. Zhou², and J. A. Colacino¹. ¹University of Michigan, Ann Arbor, MI; and ²Yale University, New Haven, CT.

- #4132 **Poster Board Number** H614
Assessment of a complex PAH-mixture from wildfires in a 3D respiratory model for asthma. R. M. Valdez^{1,2}, V. C. Colvin^{1,2}, J. M. Pennington¹, R. S. McClure³, K. M. Waters^{3,1,2}, and S. C. Tilton^{1,2}. ¹Oregon State University, Corvallis, OR; ²OSU/PNNL Superfund Research Program, Corvallis, OR; and ³Pacific Northwest National Laboratory, Richland, WA.
- #4133 **Poster Board Number** H615
Development of *in-vitro*-to-*in-vivo* extrapolation (IVIVE) approaches for PFOA and PFHpA. H. M. Bolstad¹, S. Majid², S. Coffin², and A. Soshilov². ¹Office of Environmental Health Hazard Assessment (OEHHA), California EPA, Oakland, CA; and ²Office of Environmental Health Hazard Assessment (OEHHA), California EPA, Sacramento, CA.
- #4134 **Poster Board Number** H616
Automated Generation of 3D iPSC-Based Cardiac Microtissues for High-Throughput Calcium Transient Screening. T. Smith, S. Schwengberg, and S. Jain. NCardia, Leiden, Netherlands.
- #4135 **Poster Board Number** H617
Evaluation of Isogenic Human iPSC-Derived 3D Cardiac Spheroid Co-culture Model for Predictive High-Throughput Cardiotoxicity Assessment. B. Anson, N. Beardsley, N. Meyer, R. Fiene, C. Carlson, and R. Vaidyanathan. FUJIFILM Cellular Dynamics Inc., Madison, WI.
- #4136 **Poster Board Number** H618
Human Liver-on-a-Chip Systems for Enhanced Mechanism-Based Toxicity Screening. C. Moon, F. Ventura, and C. Lucchesi. ATCC, Gaithersburg, MD.
- #4137 **Poster Board Number** H619
Predicting PARP Inhibitor-Induced Bone Marrow Toxicity Using a Multi-Lineage *in vitro* Platform. J. Terc¹, M. Stahl¹, C. Kim¹, A. Mak¹, A. Dhanda¹, D. Leung¹, K. Tse¹, R. K. Conder¹, A. C. Eaves^{1,2}, and S. A. Louis¹. ¹STEMCELL Technologies Inc, Vancouver, BC, Canada; and ²Terry Fox Laboratory, BC Cancer Agency, Vancouver, BC, Canada.
- #4138 **Poster Board Number** H620
***In-Vitro* cytotoxicity assays using RTgill-W1 cells for Toxicity Identification and Reduction Evaluation (TIE/TRE) Strategies for Wastewater and Ambient Water Analysis.** L. P. Butler^{1,2}, J. Scott^{2,3}, and M. Minghetti¹. ¹Oklahoma State University, Stillwater, OK; ²Cove Environmental, Stillwater, OK; and ³Oklahoma State University, Stillwater Oklahoma, OK.
- #4139 **Poster Board Number** H621
A New Approach Methodology for Hepatocyte Proliferation: EdU-Based High-Content Imaging in Human and Rodent Primary Cells. J. Olson¹, W. Chen², S. Al Janabi¹, A. Raza¹, Y. Gu², R. Settivari¹, and S. Catalano¹. ¹Corteva, Newark, DE; and ²Corteva, Indianapolis, IN.
- #4140 **Poster Board Number** H622
ATCC's Human-Relevant Cancer Models for Mechanism-Based Toxicity and Drug Response Profiling. A. Andar, A. Singh, M. Changsuk, S. Friend, M. Graziano, R. E. Thamert, F. Ventura, U. Sharma, J. Jacobs, and C. Lucchesi. ATCC, Gaithersburg, MD.
- #4141 **Poster Board Number** H623
Primate NAMs : Development of Human and Cynomolgus Macaque iPSC-based Assay for *in vitro* Developmental Toxicity Evaluation of Protein Degraders. K. Kotok^{1,2}, F. Suchy^{1,3}, L. Brücker⁴, L. Ramirez^{1,3}, M. Nandi¹, N. Rapicavoli¹, P. Hewitt⁴, and M. Roodgar^{1,3}. ¹Exir Bio, Menlo Park, CA; ²San José State University, San Jose, CA; ³Stanford University, School of Medicine, Stanford, CA; and ⁴Merck Healthcare KGaA, Darmstadt, Germany.
- #4142 **Poster Board Number** H624
The Utilization of *In Vitro*, Human on a Chip Cortical Networks to Assess Neurocognitive Impairment for Drug Safety and Efficacy. R. Brighton, and C. McAleer. Hesperos, Orlando, FL. Sponsor: J. Hickman

#4143	Poster Board Number H625 Energy Healing Dampens PFOA-Induced Stress Responses in Lung Alveolar Epithelial Cells. <i>M. Thakur.</i> Southern University and A&M College, Baton Rouge, LA.
#4144	Poster Board Number H626 High Throughput Assessment of Barrier Function Using Human iPSC-Derived Brain Microvascular Endothelial Cells. <i>R. Vaidyanathan, C. A. Savic, M. E. Donegan, D. J. Majewski, R. Fiene, J. Liu, and C. Carlson.</i> FUJIFILM Cellular Dynamics Inc., Madison, WI.
#4145	Poster Board Number H627 Acute Polyamide Micro- and Nanoplastic Aerosol Exposure Alters Ciliary Motility in Primary Human Bronchial Epithelial Cells. <i>M. Pavlovic, D. Lee, X. Jing, L. K. Gautam, S. Murthy, A. Adamcakova-Dodd, A. L. Ryan, and J. Kim.</i> University of Iowa, Iowa City, IA.
#4146	Poster Board Number H628 Is there something simpler than EASZY for zebrafish estrogenicity detection? <i>A. M. Martini¹, R. Mirchandani², G. Jones³, E. Bianchi³, and M. B. Bondesson².</i> ¹ Corteva Agriscience, Newark, DE; ² Indiana University, Bloomington, IN; and ³ Corteva Agriscience, Indianapolis, IN.
#4147	Poster Board Number H629 High-Precision Neurotoxicity and Neuropharmacology Assessment in CNS Models Using Field Potential Imaging. <i>N. Matsuda, N. Nagafuku, H. Kurashiki, B. Noda, and I. Suzuki.</i> Tohoku Institute of Technology, Sendai, Japan.
#4148	Poster Board Number H630 Repeated daily exposure to acetic acid attenuates of the induction of <i>in vivo</i>-relevant <i>in vitro</i> markers of respiratory irritation in a donor-dependent manner. <i>E. A. Huber¹, H. Kellner¹, N. McNabb-Kelada¹, V. Vasukuttan¹, J. White¹, N. Sadekar², and S. D. McCullough¹.</i> ¹ RTI International, Durham, NC; and ² Research Institute for Fragrance Materials, Mahwah, NJ.

Tuesday, March 24, 1:45 PM to 4:15 PM, Exhibit Hall B, Convention Center

PS Poster Session: New Approach Methods: *In Vitro* III

Chair(s): Shuyan Lu, Johnson & Johnson.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 1:45 PM–4:15 PM

Abstract #

#4149	Poster Board Number J632 Impacts of Exposure Method and Cell Type on Transcriptomic Concentration-Response Curves during Toxicological Screening of Respiratory Irritants. <i>T. W. Jackson¹, M. Muraski^{1,2}, J. Herwick^{1,3}, J. Lewis^{1,3}, A. Ogunda^{1,3}, and J. R. Murray¹.</i> ¹ US EPA, Research Triangle Park, NC; ² ORISE, Oak Ridge, TN; and ³ ORAU, Oak Ridge, TN.
#4150	Poster Board Number J633 Quantitative High-Throughput Screening Identifies Small-Molecule Inhibitors of Wnt/β-catenin Signaling. <i>X. Chen, S. Yang, S. Sakamuru, R. Sukhawanit, S. Wood, M. Ooka, R. Huang, and M. Xia.</i> National Center for Advancing Translational Sciences, National Institutes of Health, Rockville, MD.

- #4151 **Poster Board Number J634**
Impact of Chemical Quality on High-Throughput *In Vitro* Assays - A Tox21 Study.
 D. K. Ngan¹, L. Ye¹, J. Hsieh², T. Xu¹, J. Zhao¹, S. Sakamuru¹, D. Tao¹, C. A. LeClair¹, T. Zhao¹,
 A. Rossoshek¹, D. M. Reif², A. Simeonov¹, M. Xia¹, and R. Huang¹. ¹NIH/NCATS, Bethesda, MD; and
²NIH/NIEHS, Research Triangle Park, NC.
- #4152 **Poster Board Number J635**
**Evaluating Effects of Varying Serum Levels on *In Vitro* Disposition (IVD) and Partitioning
 of Per- and Polyfluoroalkyl Substances (PFAS) in Human Cell Models.** C. P. Sumner¹,
 J. A. Harrill¹, M. DeVito¹, C. Willis¹, F. Harris², C. H. Christen¹, and B. A. Wetmore¹. ¹Environmental
 Protection Agency, Durham, NC; and ²Oak Ridge Institute for Science and Education, Oak
 Ridge, TN.
- #4153 **Poster Board Number J636**
**Exploring the Use of Cell Painting and Transcriptomics in a Battery of Human Cell Lines
 for Bioactivity-Based Chemical Prioritization.** A. Jurgelewicz^{1,2}, C. M. Willis¹, F. R. Harris^{1,2},
 G. Byrd^{1,2}, D. E. Haggard¹, J. L. Bundy¹, L. J. Everett¹, A. Middleton³, S. Cable³, B. A. Wetmore¹, and
 J. A. Harrill¹. ¹US EPA, RTP, NC; ²ORISE, Oak Ridge, TN; and ³Unilever, Sharnbrook, United Kingdom.
- #4154 **Poster Board Number J637**
**Use of Data Derived Extrapolation Factors to Reduce Uncertainty in Organophosphate
 Human Health Risk Assessments.** J. Leonard, E. Mendez, C. Tan, D. Hoer, R. Loudon, J. Kidwell,
 J. Nguyen, and M. Perron. US Environmental Protection Agency, Washington DC, DC.
- #4155 **Poster Board Number J638**
**Screening Level Assessment of 1470 ToxCast Chemicals Across Nine Biologically Diverse
 Human Cell Lines Using the Cell Painting Assay.** C. M. Willis¹, A. Jurgelewicz², F. R. Harris²,
 G. Byrd², D. Haggard¹, and J. A. Harrill¹. ¹U.S. EPA, RTP, NC; and ²ORISE, Oak Ridge, TN.
- #4156 **Poster Board Number J639**
**Evaluating Respiratory Irritants using New Approach Methods: Harmonizing Key Study
 Design Variables for Air-Liquid Interface and Direct Liquid Application Exposures.**
 J. R. Murray¹, M. Muraski^{1,2}, J. Herwick^{1,3}, J. Lewis^{1,3}, A. Ogunda^{1,3}, and A. M. Jarabek¹. ¹US EPA,
 Research Triangle Park, NC; ²ORISE, Oak Ridge, TN; and ³ORAU, Oak Ridge, TN.
- #4157 **Poster Board Number J640**
**Comparative Predictivity of Estrogen-Dependent Cell Proliferation Assays to *In Vitro*/
In Vivo Reference Data.** P. Sadrpour¹, S. G. Lynn², R. J. Bever², and S. O. Simmons¹. ¹US EPA,
 Durham, NC; and ²US EPA, Washington, DC.
- #4158 **Poster Board Number J641**
Predictivity Assessment of the Human Thyroid Microtissue Assay. K. E. Pereira^{1,2},
 B. E. Foley³, M. Feshuk², S. Lynn⁴, and C. Deisenroth³. ¹ORISE, Oak Ridge, TN; ²US EPA/OCSP, SPP,
 Research Triangle Park, NC; ³former US EPA/ORD, Research Triangle Park, NC; and ⁴US EPA/OCSP, SPP,
 Washington, DC.
- #4159 **Poster Board Number J642**
***In vitro* Cardiac New Approach Methodologies Compared to Nonclinical Animal Studies
 and Clinical Repolarization Prolongation.** N. E. Simpson, T. K. Feaster, K. Blinova, and
 N. Sadrieh. FDA, Silver Spring, MD. Sponsor: B. Anson
- #4160 **Poster Board Number J643**
**Electrophysiological Evaluation of Fentanyl-Naloxone Combination using Human Neural
 New Approach Methodologies (NAMs).** C. Serna III, B. Bhardwaj, K. Blinova, and T. K. Feaster.
 FDA, Silver Spring, MD. Sponsor: B. Anson

- #4161 **Poster Board Number J644**
Neurotoxicity and Hepatotoxicity Testing in Organotypic Models as Part of a Tiered Screening Assessment for Force Health Protection. A. J. Keebaugh^{1,2}, L. M. Sweeney^{1,2}, T. Lalonde^{3,2}, T. R. Sterner^{3,2}, S. Hirway^{1,2}, and R. A. Clewell^{4,2}. ¹BlueHalo, an AV Company, Dayton, OH; ²Air Force Research Laboratory, Wpaftb, OH; ³HJF, Wright Patterson Air Force Base, OH; and ⁴Eagle Integrated Services, Wright Patterson Air Force Base, OH.
- #4162 **Poster Board Number J645**
Dose-response evaluation of lung injury in human reconstructed lung epithelium *in vitro* models following acute propylene oxide exposure. R. D. Devine¹, R. A. Moyer¹, S. N. Pearson¹, K. C. Hofacre¹, A. Gupta¹, A. J. Keebaugh², and R. A. Clewell^{3,2}. ¹Battelle Memorial Institute, Columbus, OH; ²Air Force Research Laboratory, Wright-Patterson AFB, OH; and ³Eagle Integrated Services, Inc., Wright-Patterson AFB, OH.
- #4163 **Poster Board Number J646**
Accelerating Organoid Adoption as a NAM with New Non-Toxic Dyes that Deliver Comprehensive Insights. F. Lavoie-Perusse¹, M. Bjoras², M. Camara Quilez², J. Ye², and M. Stanon³. ¹Saguaro Biosciences, Quebec, QC, Canada; ²NTNU, Trondheim, Norway; and ³Opal Therapeutics, San Francisco, CA. Sponsor: C. Mitchell
- #4164 **Poster Board Number J647**
Quantitative Assessment of Mitochondrial Toxicity in Liver Organoids Using the Seahorse XF Mito Tox Assay and XF Flex Organoid Microplate. Y. Kam, L. Winer, and N. Romero. Agilent Technologies, Inc, Lexington, MA. Sponsor: Y. Kam, American Association for Cancer Research
- #4165 **Poster Board Number J648**
Evaluation of RNA preparation for Induction Studies in Primary Human Hepatocytes in 2D and 3D Formats. L. Mier. Thermo Fisher Scientific, Austin, TX.
- #4166 **Poster Board Number J649**
***In vitro* assessment of chemical toxicity using human respiratory cell systems.** M. Sharma¹, A. O. Stucki¹, N. Roldan¹, S. Remy², E. Frijns², A. Jacobs², K. Hollanders², A. Bettmann¹, L. De Maddalena³, N. Hobi³, S. Verstraelen², and A. J. Clippinger¹. ¹PETA Science Consortium International eV, Stuttgart, Germany; ²Flemish Institute for Technological Research (VITO), Environmental Intelligence Unit, Mol, Belgium; and ³AlveoliX AG, Bern, Switzerland.
- #4167 **Poster Board Number J650**
Aerosol Application for Prediction of Respiratory Toxicity using a Human Airway Model. M. McElroy¹, J. Wallace¹, B. Stobbs¹, A. Marshall¹, J. Baily¹, R. Boni¹, M. Klausner², and S. Ayehunie². ¹Charles River Laboratories, Tranent, Edinburgh, United Kingdom; and ²MatTek, Ashland, MA. Sponsor: S. Letasiova
- #4168 **Poster Board Number J651**
prophECG: An AI-Enabled, Single-Cell, Multiplexed Kinetic Image Cytometry-based Cardiotoxicity Screening NAM for Extracting Actionable Clinical Insights from Human iPSCs in Early Drug Development. R. C. Basa¹, R. S. Ingermanson¹, F. Catalan-Perez¹, C. Handley¹, L. Harrison¹, J. M. Hilton¹, P. M. McDonough¹, I. Sanchez², R. Serrano², A. Smith¹, A. Wang¹, M. Mercola^{2,3}, and J. H. Price^{1,4}. ¹Vala Sciences, Inc., San Diego, CA; ²Stanford Cardiovascular Institute, Stanford, CA; ³Department of Medicine, Stanford University, Stanford, CA; and ⁴Scintillon Institute, San Diego, CA. Sponsor: R. Basa, American Association for the Advancement of Science
- #4169 **Poster Board Number J652**
Replacing animal testing in local tolerance assessment of an injection device: Human *ex vivo* HypoSkin model as a New Approach Methodology (NAM). J. Argenty¹, C. Letzelter¹, C. Marques¹, S. Abadie¹, A. Sanchez¹, C. Gendrin¹, A. Ochando¹, A. Rock², R. Byrne², P. Descargues¹, and N. Bertollo². ¹Genoskin, Toulouse, France; and ²Pharma Latch, Dublin, Ireland. Sponsor: A. Ochando Descargues, EUROTOX

- #4170 **Poster Board Number J653**
Development of iPSC-Derived Human Liver Organoids for Preclinical Drug Testing and Toxicology Studies. S. Krieg¹, S. K. Tiwari², F. C. Pan², D. Austin², K. Su², L. M. Pfeifer¹, M. Asadian³, X. Song³, L. C. Orellana³, A. Venz³, M. Lucchetti³, J. Lento⁴, S. Roth³, O. Henry³, D. Braeken³, L. Braeuninger-Weimer⁵, P. Hewitt¹, S. Johnston⁵, and V. Chu². ¹Merck Healthcare KGaA, Darmstadt, Germany; ²MilliporeSigma, Temecula, CA; ³imec, Leuven, Belgium; ⁴MilliporeSigma, Burlington, MA; and ⁵Merck KGaA, Darmstadt, Germany.
- #4171 **Poster Board Number J654**
Evaluation of Cell Health in Microphysiological Systems (MPS) under Different Perfusion Conditions Using Metabolic Monitoring. S. Ishida¹, Y. Araki¹, S. Takebayashi¹, Y. Komizu¹, E. Yamanishi², Y. Shigekawa², N. Sakai³, T. Higuchi³, T. Osada⁴, and T. Matsushita¹. ¹Sojo University, Kumamoto, Japan; ²PHC Corporation, Toon, Japan; ³Mediford Corporation, Kumamoto, Japan; and ⁴Mediford Corporation, Tokyo, Japan. Sponsor: S. Ishida, Japanese Society of Toxicology
- #4172 **Poster Board Number J655**
Placentation Disruption by Perfluorooctanoic Acid and Perfluorooctanesulfonate in Human Trophoblast Organoids. J. Hu. Fudan University, Shanghai, China. Sponsor: J. Hu, Japanese Society of Toxicology
- #4173 **Poster Board Number J656**
A NOVEL APPROACH TO EXTRAPOLATE EPIAIRWAY IN VITRO INHALATION TOXICITY DATA TO IN VIVO INHALATION TOXICITY ASSESSMENT. A. Lyubimov, S. Sanchez, and P. Dias. Center for BioMedical Testing, San Diego, CA.
- #4174 **Poster Board Number J657**
Novel tox readouts: high-throughput protein profiling captures compound cytotoxicity, immunotoxicity, and distinguishes on- from off-target bioactivity. N. Robichaud¹, A. Rosenbloom¹, K. Edwardson¹, J. Ewald², N. Rashidi¹, and M. Dagher¹. ¹Nomic Bio, Montreal, QC, Canada; and ²EMBL-EBI, Cambridge, United Kingdom.
- #4175 **Poster Board Number J658**
Protocol Transfer and Reproducibility of an Electrospun Scaffold-based In Vitro Human Full-thickness Skin Model. P. J. Hayden¹, L. M. Fitzgerald¹, R. K. Hodroj¹, J. Chakravarty¹, J. T. Le Do¹, J. Rangel¹, E. McFadden¹, H. Keng², V. Patel², H. P. Behrsing², N. F. Long¹, and M. M. Phaneuf¹. ¹BioSurfaces Inc, Ashland, MA; and ²Institute for In Vitro Sciences, Gaithersburg, MD.
- #4176 **Poster Board Number J659**
Integrating Inter-Individual Variability and Cellular Interactions: Transcriptomic Responses to Acrolein in a Donor-Matched Lung Co-Culture Model. N. A. McNabb-Kelada¹, E. M. Martin², O. Paul², A. E. Simmons³, J. Foley⁴, and S. D. McCullough¹. ¹Center for Therapeutics, Toxicology, and Devices, RTI International, Durham, NC; ²NIEHS, Durham, NC; ³UNC Chapel Hill, Chapel Hill, NC; and ⁴NIEHS/NTP, Durham, NC.
- #4177 **Withdrawn.**
- #4178 **Poster Board Number J661**
Primate in vitro NAMs: A Platform to Complement Human in vitro NAMs Model for Efficient Drug Safety Evaluation. M. Roodgar^{1,2}, F. Suchy^{1,2}, K. Kotok^{1,3}, L. Brücker⁴, S. Dwyer⁵, L. Ramirez¹, M. Nandi¹, N. Rapicavoli¹, K. Pryde⁶, C. Hinckley⁵, S. Engle⁷, and P. Hewitt⁴. ¹Exir Bio, Menlo Park, CA; ²Stanford University, School of Medicine, Stanford, CA; ³San José State University, San Jose, CA; ⁴Merck Healthcare KGaA, Darmstadt, Germany; ⁵Biogen, Cambridge, MA; ⁶AstraZeneca PLC, Cambridge, United Kingdom; and ⁷Etiome, Cambridge, MA.

Tuesday, March 24, 1:45 PM to 4:15 PM, Exhibit Hall B, Convention Center

PS **Poster Session: Human Exposure Assessment/Biomonitoring**

Chair(s): Dan Conklin, University of Louisville; and Evelyn Reátegui-Zirena, Texas Commission on Environmental Quality.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 1:45 PM–4:15 PM

Abstract #

- #4179 **Poster Board Number J670**
Exposure to welding fumes induces systemic inflammation in not only welders but also office workers working in factories. *M. Tsuji*¹, *Y. Ishihara*², and *C. Koriyama*³. ¹University of Occupational and Environmental Health, Kitakyusyu, Japan; ²Hiroshima University, Higashi Hiroshima, Japan; and ³Kagoshima University Graduate School of Medical and Dental Sciences, Kagoshima, Japan.
- #4180 **Poster Board Number J671**
Triangulation of Evidence in Reconstruction of Historical Exposure and Health Risks for Nuclear Workers. *J. Tsuji*, *L. Corey*, *J. Lin*, and *M. Garry*. Exponent Inc, Bellevue, WA.
- #4181 **Poster Board Number J672**
Odor perception versus real-world fragrance exposure via inhalation. *P. Dalton*¹, and *N. Sadekar*². ¹Monell, Philadelphia, PA; and ²Research Institute for Fragrance Materials, Mahwah, NJ.
- #4182 **Poster Board Number J673**
Assessing PFAS Exposure in Donor Human Milk Across Lactation Stages. *K. Dinh*¹, *W. Wang*^{1,2}, and *N. M. Johnson*¹. ¹Texas A&M University, College Station, TX; and ²National Cheng Kung University, Tainan City, Taiwan.
- #4183 **Poster Board Number J674**
Methodological Limits in Assessing Long-term Blood Lead Trends. *A. Bailey*¹, *R. A. Schoof*¹, and *K. Harvey*². ¹Ramboll, Seattle, WA; and ²Butte-Silver Bow Health Department, Butte, MT.
- #4184 **Poster Board Number J675**
Metal Exposure from Retained Shrapnel Fragments in War-Injured Veterans: Findings from Surveillance Efforts. *J. M. Gaitens*^{1,2}, *T. H. Girmay*^{1,2}, *B. Charland*¹, and *M. A. McDiarmid*^{1,2}. ¹VA Maryland Health Care System, Baltimore, MD; and ²University of Maryland School of Medicine, Baltimore, MD.
- #4185 **Poster Board Number J676**
Characterizing Chemical Exposure in Human Serum Using Ion Mobility Spectrometry-Mass Spectrometry (IMS-MS): Comparison with Traditional Targeted Analytical Techniques. *N. Barlow*¹, *T. McDonald*², *J. N. Dodds*³, *E. S. Baker*³, and *I. Rusyn*⁴. ¹Texas A&M University, College Station, TX; ²Texas A&M University School of Public Health, College Station, TX; ³University of North Carolina at Chapel Hill, Chapel Hill, NC; and ⁴Texas A&M University Interdisciplinary Faculty of Toxicology, College Station, TX.
- #4186 **Poster Board Number J677**
Metabolic Reprogramming in Gut Microbiota Exposed to Lithium. *L. Li*, *X. Liu*, *S. Cui*, *C. Ho*, *D. Hawley*, *K. Le*, and *H. Gu*. Arizona State University, Phoenix, AZ.

- #4187 **Poster Board Number J678**
Use of *in vitro* reconstructed intestinal epithelium to study effects of repeated aluminum exposure. G. D. Atanasio¹, G. Allaria¹, L. Dondero¹, F. Rispo¹, F. Tardanico¹, E. Lertora¹, K. Cortese², S. Ferrando¹, F. Soggia³, J. Markus⁴, S. Letasiova⁴, T. Filippini⁵, F. Robino⁶, M. Zanotti Russo⁶, S. Ayehunie⁷, and E. Grasselli^{1,8}. ¹DISTAV University of Genoa, Genova, Italy; ²DIMES, University of Genoa, Genova, Italy; ³DCCI, University of Genoa, Genova, Italy; ⁴MATTEK IVLSL, Bratislava, Slovakia; ⁵CREAGEN, University of Modena and Reggio Emilia, Modena, Italy; ⁶Angel Consulting, Milan, Italy; ⁷MATTEK, Ashland, MA; and ⁸Centro 3R, Interuniversity Centre for the Promotion of 3Rs, Genova, Italy.
- #4188 **Poster Board Number J679**
Quantitative Assessment of Microbial Activity in a Veterinary Clinic Environment: Integrating ATP Bioluminescence Surface Assays with Airborne Culture-Based Sampling. O. P. Jegede, D. M. McGee, D. K. Seybold, and A. Adhikari. Georgia Southern University, Statesboro, GA. Sponsor: O. Jegede, Society of Environmental Toxicology and Chemistry
- #4189 **Poster Board Number J680**
Identification and Risk-Based Prioritization of PFAS Source Signatures in US Drinking Water. K. K. Isaacs, N. Charest, J. F. Wambaugh, H. Whitehead, and K. Paul Friedman. UL Research Institutes, Research Triangle Park, NC.
- #4190 **Poster Board Number J681**
Thinking Zinc: An Intervention study for mitigation of metal toxicity. E. J. Dashner-Titus, K. L. Cooper, K. Torczynski, D. MacKenzie, E. Erdei, and L. G. Hudson. University of New Mexico, Albuquerque, NM.
- #4191 **Poster Board Number J682**
A community-based participatory research approach to evaluate toxic metals exposure among agricultural, native communities in the Southern Andes. J. K. Lessing¹, S. A. Stratton², A. Zhang³, J. S. Lu¹, C. Portugal⁴, C. L. Doherty², and Z. Rivera-Núñez². ¹Rutgers University, New Brunswick, NJ; ²Rutgers University, Piscataway, NJ; ³Brown University, Providence, RI; and ⁴Cotabambas Province, Tambobamba, Peru.
- #4192 **Poster Board Number J683**
Advancing Chemical Exposomics: Untargeted and Targeted LC-MS Approaches for Phase II Metabolite Analyses. J. Y. Chen, B. Taylor, T. Krivokhizhina, Z. Xie, P. Lorkiewicz, and S. Srivastava. University of Louisville, Louisville, KY.
- #4193 **Poster Board Number J684**
The Application of Non-Targeted, Volatile Organic Compound (VOC) Mobile Air Monitoring in Fenceline Communities. E. Vitucci¹, W. Wang², A. Sprague³, T. Mustapha¹, J. Cisneros⁴, M. O'Quinne⁵, C. Roberts⁵, J. Schermbeck⁵, F. Wright⁶, and N. Johnson¹. ¹Texas A&M University, College Station, TX; ²National Cheng Kung University, Tainan, Taiwan; ³Lindenwood University, College Station, MO; ⁴Singleton United/Unidos, Dallas, TX; ⁵Downwinders at Risk, Dallas, TX; and ⁶North Carolina State University, Raleigh, NC.
- #4195 **Poster Board Number J686**
Pinpointing the Pervasive: An Exposome Platform for Subtle Environmental Threats. E. Stancliffe, and G. J. Patti. Panome Bio, Saint Louis, MO. Sponsor: G. Patti, American Association for Cancer Research
- #4196 **Poster Board Number J687**
Does the Dose Make the Poison? Time Will Tell. P. M. Kruse, and K. P. Messier. National Institute of Environmental Health Sciences, Durham, NC.

- #4197 **Poster Board Number** J688
Advancing the Systematic Understanding of Quaternary Ammonium Compounds (QACs): Harmonized Nomenclature and Consumer Product Use Patterns. B. N. Chung¹, K. Balasubramanian¹, L. Huang¹, T. Moradkhan¹, Q. Meng¹, V. Samano², C. N. Lowe³, A. Williams³, N. Pham¹, T. Buck¹, T. A. Bruton¹, and A. Doherty¹. ¹California Safer Consumer Products Program, Department of Toxic Substances Control, Sacramento, CA; ²Senior Environmental Employment Program, U.S. Environmental Protection Agency, Durham, NC; and ³Office of Research and Development, Center for Computational Toxicology and Exposure, U.S. Environmental Protection Agency, Durham, NC.
- #4198 **Poster Board Number** J689
From Numbers to Mechanisms: A Unified Framework for Interpreting and Predicting Urinary Excretion Fractions. Y. Li, and L. Li. University of Nevada Reno, Reno, NV. Sponsor: D. Li
- #4199 **Poster Board Number** J690
Predictive Approach to Characterizing Health Risk from Exposure to Thermal Degradation Byproducts from High Temperature Processes. K. M. Salerno¹, D. R. Nachman¹, J. M. Kalter¹, T. J. Buckley¹, K. E. Klarup¹, T. R. Sterner^{2,3}, and R. A. Clewell^{2,4}. ¹Johns Hopkins University Applied Physics Laboratory, Laurel, MD; ²Air Force Research Laboratory (711HPW/RHBAF), Wright Patterson AFB, OH; ³Henry M. Jackson Foundation for the Advancement of Military Medicine, Inc., Wright Patterson AFB, OH; and ⁴Eagle Integrated Sciences, Inc., Wright Patterson AFB, OH.
- #4200 **Poster Board Number** J691
USEtox Modeling of Children's Exposures to Potential Endocrine Disruptors in Personal Care Products. L. Nakayama Wong¹, L. Huang¹, M. Romero Franco¹, B. Chung², X. Zhou¹, Q. Meng¹, O. Jolliet³, and N. Pham¹. ¹California Department of Toxic Substances Control, Sacramento, CA; ²California Department of Toxic Substances Control, Cypress, CA; and ³Technical University Denmark, Lyngby, Denmark.

Tuesday, March 24, 1:45 PM to 4:15 PM, Exhibit Hall B, Convention Center

PS Poster Session: Neurodegeneration and Neurodegenerative Diseases II

Chair(s): Atilla Engin, Gazi University, Turkey.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 1:45 PM–4:15 PM

Abstract #

- #4201 **Poster Board Number** K692
Oxidative stress, PGE2 and NGF/TrkA/P75^{NTR} dysregulation and neurodegeneration induced by thyroid signaling disruption following PFOS single and repeated treatment. P. Moyano¹, A. Flores¹, J. Sanjuan¹, J. C. Plaza¹, L. Guerra-Menéndez², L. Abascal¹, O. Mateo¹, and J. Del Pino¹. ¹Complutense University of Madrid, Madrid, Spain; and ²San Pablo CEU University, Madrid, Spain.
- #4202 **Poster Board Number** K693
Impact of Developmental Atrazine Exposure on Antioxidant Activity and AD-Related Pathways in Wild-Type and *sorl1* Mutant Zebrafish Embryos. K. S. Chelladurai, and J. L. Freeman. Purdue University, West Lafayette, IN.

- #4203 **Poster Board Number** K694
Chronic non-cytotoxic manganese exposure disrupts glutamate homeostasis and pathways involved in the integrated stress response in Alzheimer's disease. *H. Kim¹, A. M. Tukker¹, M. M. Strom¹, M. L. Simmel¹, F. E. Harrison², and A. B. Bowman¹.* ¹Purdue University, West Lafayette, IN; and ²Vanderbilt University Medical Center, Nashville, TN.
- #4204 **Poster Board Number** K695
Toxic effects of the obesogenic microbiome metabolite delta-valerobetaine on cognitive function. *D. P. Jones, G. Lim, H. Lee, J. Jeon, Z. R. Jarrell, and Y. Go.* Emory University School of Medicine, Atlanta, GA.
- #4205 **Withdrawn.**
- #4206 **Poster Board Number** K697
Perfluorooctane Sulfonate (PFOS)-Induced Mitochondrial Dysfunction and Dopaminergic Neurotoxicity: Implications for Parkinson's Disease. *N. Boonpraman, D. Kim, N. Kuhn, and S. R. Sammi.* Michigan State University, Grand Rapids, MI.
- #4207 **Poster Board Number** K698
In Utero Exposure to Ultrafine Particulate Matter Impairs Cognitive Function in APP-KI Mice. *N. Hida, J. Kilian, H. Hsu, D. Herman, I. Hasen, D. Sanghavi, V. Gaxiola, M. Kleinman, and M. Kitazawa.* University of California Irvine, Irvine, CA.
- #4208 **Poster Board Number** K699
Investigating the Effects of Traffic-Related Air Pollution on Alzheimer's Disease Neuropathology in the Olfactory Bulbs of Transgenic Rat Model of Alzheimer's Disease. *A. Bhusal, H. Park, M. Cheng, A. E. Valenzuela, K. J. Bein, A. Wexler, and P. J. Lein.* University of California, Davis, Davis, CA.
- #4209 **Poster Board Number** K700
Developmental MeHg exposure causes persistent changes in hiPSC-derived cortical models reflecting a neurodegenerative disease risk state. *A. M. Tukker¹, H. Kim¹, M. M. Strom¹, B. Han¹, M. Aschner², and A. B. Bowman¹.* ¹Purdue University, West Lafayette, IN; and ²Albert Einstein College of Medicine, the Bronx, NY.
- #4210 **Poster Board Number** K701
Investigating the potential impact of FUS phosphorylation-dephosphorylation dynamics on subcellular localization in response to DNA Damage. *H. L. Gottesman, M. Punjani, and M. A. Johnson.* Oberlin College, Oberlin, OH. Sponsor: G. Kwakye
- #4211 **Poster Board Number** K702
ENVIRONMENTAL CONTRIBUTION AND NEUROANTIBODIES (NAb) BIOMARKERS IN NEONATAL HYPOXIC-ISCHEMIC ENCEPHALOPATHY (HIE). *M. L. Monaco-Brown¹, M. J. Horgan¹, and H. A. El-Fawal².* ¹Albany Medical College, Albany, NY; and ²American Health and Diagnostics Institute (AHAD), Troy, NY.
- #4212 **Poster Board Number** K703
Cannabidiol and Trazadone suppress Amyloid Beta Pathological features in *Caenorhabditis elegans*. *J. Amraro, A. Alsulami, A. Holzer, V. Gilberto, M. Linfoot, S. Alkhudaydi, S. McGrath, and J. Moreno.* Colorado State University, Fort Collins, CO.
- #4213 **Poster Board Number** K704
Developmental Phthalate Exposure Increases Alzheimer's Disease-Relevant Neuropathological Outcomes. *S. Aktuna, M. Graham, E. Liss, M. M. Mahoney, and H. J. Gritton.* University of Illinois at Urbana-Champaign, Urbana, IL.

- #4214 **Poster Board Number** K705
Investigating Nanoplastic Effects on Amyloid-Beta Fibril Formation and Neurotoxicity.
S. C. Stradtman, S. I. Thrall, K. DeSantis, and B. L. Pearson. Oregon State University, Corvallis, OR.
- #4215 **Poster Board Number** K706
Pre-Adsorption of Pesticides onto Nanoplastics Alters Neurotoxic Responses in Primary Cortical Neurons. *S. Thrall, S. Stradtman, A. Rust, K. DeSantis, and B. Pearson.* Oregon State University, Corvallis, OR.
- #4216 **Poster Board Number** K707
Intranasal infection with Western Equine Encephalitis Virus induces temporally and spatially distinct patterns of gliosis and neurodegeneration in the hippocampus of C57Bl/6 mice. *A. Briggs, A. Schuller, O. Yanouri, M. Hager, S. Rocha, and R. Tjalkens.* Colorado State University, Fort Collins, CO.
- #4217 **Poster Board Number** K708
Exposure to manganese in juvenile mice primes the hippocampus to glial inflammatory responses and neuronal stress following systemic infection with Influenza A virus subtype H1N1. *M. R. Hager, O. R. Yanouri, A. J. Schuller, and R. B. Tjalkens.* Colorado State University, Fort Collins, CO.
- #4218 **Poster Board Number** K709
Neuropathological features of Alzheimer's Disease like pathology in aging canines.
A. Alsulami¹, P. Shirely¹, S. McGrath¹, C. S. Latimer², and J. Moreno¹. ¹Colorado State University, Fort Collins, CO; and ²University of Washington, Seattle, WA.
- #4219 **Poster Board Number** K710
Clinicopathological Profiles From Aging Canine Cohorts Reveal Changes Associated With Cognitive Dysfunction. *K. Kawai Puaa^{1,2}, I. Harter¹, S. McGrath³, and J. A. Moreno^{1,2}.* ¹Department of Environmental and Radiological Health Sciences, College of Veterinary Medicine and Biomedical Sciences, Colorado State University, Fort Collins, CO; ²Brain Research Center, Colorado State University, Fort Collins, CO; and ³Department of Clinical Sciences, College of Veterinary Medicine and Biomedical Sciences, Colorado State University, Fort Collins, CO.
- #4220 **Poster Board Number** K711
Age and Sex Have Significant Impact on Microglia Morphology: Modulation by Acute LPS Challenge. *J. K. Wilson, L. Veltmaat, H. D. Ludwig, J. Carpenter, R. Dockman, B. Hudson, and N. Filipov.* University of Georgia, Athens, GA.
- #4221 **Poster Board Number** K712
Neurological Phenotypes and PTSD-Linked Neuroinflammatory Pathways in World Trade Center Responders. *R. N. Marquez¹, L. Pitta¹, N. Borisenko¹, S. A. Clouston², and R. G. Lucchini¹.* ¹Florida International University, Miami, FL; and ²Stony Brook University, Stony Brook, NY.
- #4222 **Poster Board Number** K713
Systemic murine infection with Western Equine Encephalitis Virus results in age-related Parkinson's disease-like motor dysfunction *in vivo* and astrocyte-mediated neurodegeneration *in vitro*. *A. J. Schuller, A. M. Briggs, and R. B. Tjalkens.* Colorado State University, Fort Collins, CO.
- #4223 **Poster Board Number** K714
A High-Content Neurotoxicity Assay using multiple Neurotransmitter and Synaptogenesis Markers in *C. elegans*. *S. Mondal¹, A. Laing², A. Shen², A. Medewar², J. Brown², and A. Ben-Yakar^{2,3}.* ¹vivoVerse, Inc., Austin, TX; ²vivoVerse, LLC, Austin, TX; and ³The University of Texas at Austin, Austin, TX.

#4224 **Poster Board Number** K715
Evaluating the protective role of nicotine in pesticide induced Dopaminergic neuron degeneration through mechanosensation, behavioral, and fluorescent assays. C. Lane¹, S. McDermott¹, A. Svetlik^{1,2}, K. Neubert¹, R. Frye^{1,3}, V. Fitsanakis^{1,4}, and K. Vaughan¹. ¹King University, Bristol, TN; ²Texas A&M, College Station, TX; ³University of Virginia, Charlottesville, VA; and ⁴Robson Forensics, Lancaster, PA.

Tuesday, March 24, 1:45 PM to 4:15 PM, Exhibit Hall B, Convention Center

PS Poster Session: Cardiovascular Toxicology/Hemodynamics

Chair(s): Petra Haberzettl, University of Louisville; and Tejas Lahoti, Avidity Biosciences.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 1:45 PM–4:15 PM

Abstract #

- #4225 **Poster Board Number** K717
Methanol Enhances Vascular K_{ATP} Channel Activity: A Potential Mechanism for Methanol-Induced Hypotension. C. Simon, V. Nagaraj, and C. McClenaghan. Center for Advanced Biotechnology and Medicine, and Departments of Pharmacology and Medicine, Robert Wood Johnson Medical School, Rutgers the State University of New Jersey, Piscataway, NJ. Sponsor: C. Simon, Society of Environmental Toxicology and Chemistry
- #4226 **Poster Board Number** K718
The Effects of Carbon Nanodots on Ultrasonic Vocalizations and Other Behaviors of C57BL/6J and LDLr -/- mice. D. Cardenas Vasquez, K. M. Erikson, I. Pack, S. Fordahl, C. Tang, K. El-Khoury, T. Philbrook, R. Petric, and Z. Jia. University of North Carolina at Greensboro, Greensboro, NC.
- #4227 **Poster Board Number** K719
The Influence of Isoflurane on the Gut Microbiome in a Rat Model of Diet-induced Hypertension. A. N. Arce Rodriguez¹, B. Christian², and A. Lauer². ¹Inter American University of Puerto Rico, Aguadilla Campus, Aguadilla, PR; and ²Michigan State University, East Lansing, MI.
- #4228 **Poster Board Number** K720
Metabolic Remodeling and Mitochondrial Impairment in HFpEF: Insights from a Murine Model. A. Aryal, L. Bishop, P. Mobasheran, S. Chatterjee, S. R. Jennings, J. Adamec, H. Xia, E. D. Lazartigues, and Q. Yang. Louisiana State University Health Science Center-New Orleans, New Orleans, LA. Sponsor: Q. Yang, American Physiological Society
- #4229 **Poster Board Number** K721
Cardiotoxic isoproterenol-induced heart failure in rats and its treatment with pyridostigmine. M. P. Stojiljkovic¹, D. Lončar-Stojiljković¹, S. T. Marinković¹, D. M. Djuric², and R. Škrbić¹. ¹Faculty of Medicine, University of Banja Luka, Banja Luka, Bosnia and Herzegovina; and ²Faculty of Medicine, University of Belgrade, Belgrade, Serbia.
- #4230 **Poster Board Number** K722
Transcriptomic Profiling Reveals Enhanced Cardiomyocyte Maturation in 3D Culture with Fibroblast Co-culture. M. Rao¹, I. Mahfouz², F. Tariq², E. Vermersch², C. Pernici³, E. Ferrari³, P. Occhetta³, R. Visone⁴, and A. Garry². ¹Sanofi Pharmaceuticals, Cambridge, MA; ²Sanofi Pharmaceuticals, Vitry, France; ³BiomimX Srl, Milano, Italy; and ⁴BiomimX Srl, Vitry, Italy.

- #4231 **Poster Board Number K723**
Comparative Assessment of Inhalation Exposure to Military Burn Pit and Wildland Urban Interface Fire Emissions on Systemic Microvascular Function. V. Nguyen¹, A. Ranpara¹, W. T. Goldsmith¹, T. Batchelor¹, H. D. Leonard¹, R. Burns¹, S. Hussain¹, D. Harper², J. Hoyer¹, and T. R. Nurkiewicz¹. ¹West Virginia University, Morgantown, WV; and ²University of Tennessee, Knoxville, Knoxville, TN.
- #4232 **Poster Board Number K724**
High-content phenotypic profiling of human aortic endothelial cells reveals class-specific lipid and organelle perturbations by environmental chemicals. A. T. Szafran¹, M. G. Mancini¹, D. Z. Suske¹, M. J. Bolt¹, M. A. Mancini¹, N. Gokce², and J. J. Schlezinger³. ¹Baylor College of Medicine, Houston, TX; ²Boston University School of Medicine, Boston, MA; and ³Boston University School of Public Health, Boston, MA.
- #4233 **Poster Board Number K725**
Loss of PPAR α in Murine Hearts Alters Female Sex-Specific Cardioprotection to Doxorubicin. A. Mills, and S. George. University of Pittsburgh School of Medicine, Pittsburgh, PA.
- #4234 **Poster Board Number K726**
Comparing Predictability of Drug-Induced Proarrhythmia Using hiPSC-Cardiomyocytes, Ion Channel Inhibition, and APD Simulation. H. Miyoshi¹, N. Mochizuki², M. Tateshita³, Y. Hikida³, and A. Inomata¹. ¹FUJIFILM Corporation, Bio Science & Engineering Laboratories, Ashigara-kami, Kanagawa, Japan; ²FUJIFILM Toyama Chemical Co., Ltd., Toyama, Toyama, Japan; and ³FUJIFILM Corporation, Imaging & Informatics Laboratories, Minato-ku, Tokyo, Japan.
- #4235 **Poster Board Number K727**
Ready-to-use Human Cardiac Organoids for Chronic Contractility-Based Toxicity Profiling of Small Molecules and Biologics. B. Lickiss¹, J. Hunker¹, S. I. Wang², D. Woo², A. Kim², E. Kim², E. Dragicevic³, S. Stoelzle-Feix³, P. Linder¹, and M. Gossmann¹. ¹innoVibro GmbH, Juelich, Germany; ²NEXEL Co., Ltd., Seoul, Korea, Republic of; and ³Nanon Technologies, Munich, Germany.
- #4236 **Poster Board Number K728**
Non-invasive assessment of electromechanical coupling in the study of cardiomyocytes. J. Netzeband, A. Godino, C. Scandellaria, J. Alvarez, G. Bruno, M. Dipalo, and M. Girand. Harvard Bioscience, Holliston, MA. Sponsor: M. Girand, Safety Pharmacology Society
- #4237 **Poster Board Number K729**
Lead (Pb) Exposure During Differentiation Induces Cell Line-Specific Transcriptional and Functional Alterations in Human iPSC-Derived Ventricular Cardiomyocytes. K. E. Sala-Hamrick¹, A. Tapaswi¹, E. K. Shah¹, T. Ishikawa¹, I. R. Melis¹, A. Monteiro Da Rocha², D. C. Dolinoy¹, and L. K. Svoboda¹. ¹University of Michigan School of Public Health, Ann Arbor, MI; and ²University of Michigan Medical School, Ann Arbor, MI.
- #4238 **Poster Board Number K730**
A comprehensive assessment of *in vitro* heart safety evaluation for Tyrosine kinase inhibitors. X. Guo, S. Zheng, T. Zhao, C. Ren, M. Lin, L. Chen, K. Wu, X. Zhang, T. Bing, and Y. Li. ICE Bioscience, Beijing, China. Sponsor: T. Bing, American Association for Cancer Research
- #4239 **Poster Board Number K731**
Complementary cardiotoxicity screening pipeline from 2D hiPSC-cardiomyocytes towards complex 3D cardiac organoids and living myocardial slices. E. Mohr^{1,2,3}, M. Jordan^{1,2}, N. Hoffmann¹, I. Riedel^{1,3}, A. Gietz³, S. Chatterjee^{1,2,3}, K. Schmidt¹, F. Schmieder⁴, A. Stucki-Koch¹, C. Polk⁴, C. Hansen¹, J. Philipp⁴, S. Behrens⁴, T. Nicke⁵, R. Ramm⁶, F. Sonntag⁴, C. Bär^{1,2,3}, and J. Fiedler^{1,2}. ¹Fraunhofer Institute for Toxicology and Experimental Medicine ITEM, Hannover, Germany; ²Fraunhofer Cluster of Excellence for Immune Mediated Diseases, Hannover, Germany; ³Hannover Medical School, Hannover, Germany; ⁴Fraunhofer Institute for Material and Beam Technology IWS, Dresden, Germany; ⁵Fraunhofer Institute for Digital Medicine MEVIS, Bremen, Germany; and ⁶Department of Cardiac-, Thoracic-, Transplantation and Vascular Surgery, Hannover Medical School, Hannover, Germany. Sponsor: S. Escher

- #4240 **Poster Board Number** K732
Evaluation Methods for Cardiovascular and Renal Toxicity of Minoxidil in Beagle Dogs Using Noninvasive Methods. F. Nakane, T. Nakabayashi, H. Saito, A. Maeda, T. Kubota, Y. Tate, K. Kitta, T. Kadota, and A. Fujiwara. CMIC Bioresearch Center, CMIC Pharma Science Co., Ltd., Hokuto-shi, Yamanashi, Japan.
- #4241 **Poster Board Number** K733
An Automated 96-Well Engineered Heart Tissue Platform for Cardiac Safety and Pharmacology Studies. D. Sauter¹, L. C. Ozhatil², O. Karaman², R. Zhang², M. Herrmann², A. Lindqvist², M. Bobadilla², T. T. Nielsen², R. E. Ponce Reyes², T. Kapinus², and S. Wilson². ¹Sophion Bioscience, San Diego, CA; and ²Sophion Bioscience, Ballerup, Denmark. Sponsor: A. Lindqvist, Safety Pharmacology Society
- #4242 **Poster Board Number** K734
From neat compounds to complex mixtures: Microphysiological systems for cardiotoxicity safety testing of botanical extracts. M. Gossmann¹, A. Monteiro da Rocha², S. R. Zhao³, J. C. Krzykwa⁴, C. A. Mitchell⁴, J. C. Wu³, and P. Linder¹. ¹innoVitro GmbH, Jülich, Germany; ²University of Michigan Medicine, Ann Arbor, MI; ³Stanford University, Stanford, CA; and ⁴HESI Global, Washington, DC. Sponsor: M. Gossmann, Safety Pharmacology Society
- #4243 **Poster Board Number** K735
Integrating New Approach Methodologies and Transcriptomics for Predictive Cardiotoxicity Assessment in hiPSC-Derived Cardiomyocyte Models. P. Walker¹, C. Bruhn², S. Llewellyn¹, J. Eakins¹, B. Park¹, M. Fernandes dos Reis², and R. Rex². ¹Cyprotex Discovery Ltd, Alderley Park, Cheshire, United Kingdom; and ²Evotec International GmbH, Göttingen, Germany. Sponsor: C. Strock
- #4244 **Poster Board Number** K736
Developmental exposure to Trifluoroacetic Acid cause vascular toxicity via lactate dehydrogenase-dependent glycolytic disturbance. Y. Wei, S. Huang, Y. Hao, P. Yang, Z. Zhang, and J. Chen. Sun Yat-sen University, Guangzhou, China.
- #4245 **Poster Board Number** K737
Chemical, Drug, and Stress induced Cardiovascular Dysfunctions: A Comprehensive Bioinformatics and Bench Studies in Gulf War Illness. N. Shree, L. R. Gladwell, K. A. Kunz, M. Kodali, A. K. Shetty, and M. Choudhury. Texas A&M University, College Station, TX.
- #4246 **Poster Board Number** K738
Sensitivity of Latin Square and Ascending Dose Design for Cardiovascular Safety Pharmacology Studies in Telemetry Implanted dogs. S. An. Wuxi Apptec (Suzhou) Co., Ltd., Jiangsu, China. Sponsor: R. Zhang
- #4247 **Poster Board Number** K739
Sex Matters: Differences in Cardiac Phenotype and Responses to Inhaled Nano-TiO₂. S. Adams, X. Wang, D. Adler, E. Yurkow, and P. A. Stapleton. Rutgers University, Piscataway, NJ.
- #4248 **Poster Board Number** K740
Organ-on-a-chip for cardio- and neurotoxicity studies on spheroids. C. Hoebart, M. Lux, S. Beyl, and S. Hering. Chanpharm, Vienna, Austria.
- #4249 **Poster Board Number** K741
Investigation of adverse effects of long-term exposure to e-cigarette compounds in human cardiomyocytes. C. E. Brown¹, X. Li¹, Y. Shen², and Q. Liu¹. ¹Clemson University, Clemson, SC; and ²Henan Normal University, Xinxiang, China.
- #4250 **Poster Board Number** K742
Effects of Titanium Dioxide Nanoparticles on Human Red Blood Integrity and Function: Implications for Anemia and Occupational Health. X. Lin, M. T. Kleinman, and A. De Vizcaya Ruiz. University of California, Irvine, Irvine, CA.

- #4251 **Poster Board Number** K743
Divergent functional responses in 2D and 3D human iPSC-derived cardiomyocytes to doxorubicin-induced cardiotoxicity and prevention. *M. C. Daley*^{1,2}, R. Basnet², D. Heikal², A. Szarnicki², U. Mende³, B. Choi³, and K. L. Coulombe². ¹Department of Chemical and Biomolecular Engineering, Lafayette College, Easton, PA; ²Institute for Biology, Engineering and Medicine, Brown University, Providence, RI; and ³Cardiovascular Research Center, Rhode Island Hospital and Warren Alpert Medical School of Brown University, Providence, RI.
- #4252 **Poster Board Number** K744
Heart to Heart. Maternal and fetal cardiovascular consequences of gestational nano-titanium dioxide exposure. *R. P. Hunter, T. Gluth, S. Keeley, K. Seman, and E. Bowdridge.* West Virginia University, Morgantown, WV.
- #4253 **Poster Board Number** K745
 β -Adrenergic Inhibition Prevents Gestational E-cig Exposure-Induced Sympathetic Dominance and Ventricular Arrhythmias throughout Pregnancy and Postpartum. *B. R. Reynolds*^{1,2}, L. Watson³, H. E. Collins², and A. P. Carll^{1,2}. ¹Department of Physiology, University of Louisville School of Medicine, Louisville, KY; ²Center for Cardiometabolic Science, Christina Lee Brown Envirome Institute, University of Louisville School of Medicine, Louisville, KY; and ³Department of Biology, Vassar University, Poughkeepsie, NY.
- #4254 **Poster Board Number** K746
Chronic E-Cigarette Exposure Induces Pulmonary Artery Remodeling in Apoe^{-/-} mice. *A. Slepchenkova, J. M. Oakes, and C. Bellini.* Northeastern University, Boston, MA.
- #4255 **Poster Board Number** K747
Immune Dysregulation in E-Cigarette Users: Contribution of Volatile Organic Compounds and Nicotine. *M. V. Malovichko, M. Etemadi, T. Malik, T. V. Krivokhizhina, M. Kulkarni, R. J. Keith, P. K. Lorkiewicz, A. Bhatnagar, D. Riggs, and S. Srivastava.* University of Louisville, Louisville, KY.
- #4256 **Poster Board Number** K748
Mice Exposed to Chronic Cadmium Display Pulmonary Arterial Hypertension-like Pathogeneses. *D. D. Cathey, X. Hui, Y. Tan, J. Cai, L. Cai, and J. Huang.* University of Louisville, Louisville, KY.
- #4257 **Poster Board Number** K749
Cardiac Transcriptomics Uncovers Safety Markers for Potentially Cardiotoxic Kinase Inhibitors. *D. Dragovic¹, T. Krsmanovic¹, K. Jankovic¹, A. Surla¹, P. Stojakovic¹, S. Lantsman¹, G. Apic¹, and R. B. Russell².* ¹Metisox, Cambridge, United Kingdom; and ²Heidelberg University, Heidelberg, Germany.
- #4258 **Poster Board Number** K750
Toxicity of evaluation of R-1132(E) using human cardiomyocytes. *R. Takeda¹, N. Mori¹, R. Kobayashi¹, T. Nakaue², S. Tokuno², Z. Guo², and Y. S. Kida¹.* ¹National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, Japan; and ²Daikin Industries, Ltd., Kita, Japan. Sponsor: *T. Fukuyama*
- #4259 **Poster Board Number** K751
Integrating qHTS and QSAR Models to Identify Safe GPCR-targeted Compounds: A Focus on hERG-dependent Cardiotoxicity. *X. Luo¹, J. Zhao¹, S. Sakamuru¹, M. Xia¹, T. Xu¹, J. Travers¹, H. Zhu¹, M. Hall¹, S. Ferguson², D. Reif², and R. Huang¹.* ¹NCATS/NIH, Rockville, MD; and ²NIEHS/NIH, Research Triangle Park, SC.
- #4260 **Poster Board Number** K752
Impact of Ephedra on vascular function. *T. L. van Neel, D. Kuo, and D. Gerhold.* NIH/NCATS, Rockville, MD.
- #4261 **Poster Board Number** K753
Paradoxical Effects of an Anti-Inflammatory Drug, Anakinra, on Endothelial Cells. *D. L. Gerhold, D. Kuo, and T. van Neel.* NIH - NCATS, Rockville, MD.

Tuesday, March 24, 1:45 PM to 4:15 PM, Exhibit Hall B, Convention Center

PS Poster Session: Epidemiology and Public Health

Chair(s): Todd Jusko, University of Rochester School of Medicine and Dentistry.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 1:45 PM–4:15 PM

Abstract #

- #4262 **Poster Board Number K756**
Toxicological Agents in Self Poisoning Cases at Mzuzu Central Hospital: Trends and Treatment Approaches. V. Mithi¹, R. Dewey², and B. Kachingwe¹. ¹Kamuzu University of Health Sciences, Blantyre, Malawi; and ²University of Nottingham, Nottingham, United Kingdom.
Sponsor: *W. Rumbeiha*
- #4263 **Poster Board Number K757**
The Importance of Monitoring Indoor Air Quality. S. Kiroglu, and K. A. Swanik. Neumann University, Aston, PA.
- #4264 **Poster Board Number K758**
Eucalyptus Oil Ingestion: A Retrospective Descriptive Analysis of Exposures Reported to a Poison Information Helpline in South Africa over five years. C. van Pletzen, A. Du Plessis, and C. Marks. Stellenbosch University, Cape Town, South Africa. Sponsor: *M. Gulumian*
- #4265 **Poster Board Number K759**
Cannabis Abuse, Intoxication, and Vomiting in Mayo Clinic Patients in Arizona, Florida, and Minnesota Between 2017 and 2024. K. D. Conrow¹, M. Go², H. Ha³, S. T. Griffith³, N. Oblizajek⁴, M. Meier⁵, R. W. Kirchoff⁶, and M. C. Leung¹. ¹Arizona State University, Glendale, AZ; ²University of Pennsylvania, Philadelphia, PA; ³Arizona State University, Phoenix, AZ; ⁴Mayo Clinic, Rochester, MN; ⁵Arizona State University, Tempe, AZ; and ⁶Mayo Clinic, Scottsdale, AZ.
- #4266 **Poster Board Number K760**
Integrating wastewater-derived fentanyl consumption rates and public health data: A triangulation approach for community surveillance. M. Garzon-Ramirez¹, J. H. Bisesi², E. Coker³, C. Delcher⁴, J. Bowden², N. Winn², S. E. Bisesi², F. Paneque², S. Tabora-Sarmiento², and T. Sabo-Attwood¹. ¹University of South Carolina, Columbia, SC; ²University of Florida, Gainesville, FL; ³British Columbia Centre for Disease Control, Vancouver, BC, Canada; and ⁴University of Kentucky, Lexington, KY.
- #4267 **Poster Board Number K761**
An Epidemiologic Evaluation of Inorganic Arsenic Exposure and Teratogenic Effects. K. J. Colonna, and S. R. Boomhower. Gradient, Boston, MA.
- #4268 **Poster Board Number K762**
Age and Sex Specific Associations of Arsenic Exposure with Hypertension and Elevated Blood Pressure Measures in African-Caribbean Adults. N. Jahan¹, N. F. Price¹, R. K. Cvejkus¹, V. Wheeler², P. J. Parsons^{3,4}, E. J. Mullin³, A. A. Roberts³, J. M. Zmuda¹, A. L. Kuipers⁵, A. P. Sanders¹, I. Miljkovic¹, and A. Barchowsky¹. ¹University of Pittsburgh, Pittsburgh, PA; ²Scarborough General Hospital, , Tobago, Scarborough, Trinidad and Tobago; ³Wadsworth Center, New York State Department of Health, Albany, NY; ⁴College of Integrated Health Sciences, University at Albany, Albany, NY; and ⁵Michigan State University, Grand Rapids, MI.

- #4269 **Poster Board Number** K763
An Evaluation of the Epidemiologic and Experimental Animal Evidence of Oral Cadmium Exposure and Teratogenic Effects. *P. M. Andrew, J. Chien, K. J. Colonna, and S. R. Boomhower.* Gradient, Boston, MA.
- #4270 **Poster Board Number** K764
Disparities in Arsenic Exposure: Evidence from Public Water Systems and Human Biomonitoring. *Z. A. Kobs, and T. Roh.* Texas A&M University School of Public Health, College Station, TX.
- #4271 **Poster Board Number** K765
Determinants of Placental OATP2A1 and OATP2B1 Transporter Protein Concentrations within the UPSIDE Birth Cohort. *C. Jiang¹, K. Getz¹, R. Zhang¹, J. K. Fallon², R. J. Qasem², J. B. Tiley², P. C. Smith², J. Brunner³, R. K. Miller³, T. G. O'Connor³, N. P. Illsley^{1,4}, P. Ohman-Strickland¹, Z. Rivera-Núñez¹, E. S. Barrett¹, and L. M. Aleksunes¹.* ¹Rutgers University, Piscataway, NJ; ²University of North Carolina, Chapel Hill, NC; ³University of Rochester Medical Center, Rochester, NY; and ⁴Placental Research Group, Maplewood, NJ.
- #4272 **Poster Board Number** K766
Integrating Toxicological and Economic Evidence to Optimize Repurposing Strategies for Rare Diseases. *M. Mohsenin¹, D. Thomas², and S. Winter³.* ¹Elsevier, Pompton Lakes, NJ; ²Elsevier, San Diego, CA; and ³Elsevier, Amsterdam, Netherlands. Sponsor: D. Thomas, International Society for the Study of Xenobiotics
- #4273 **Poster Board Number** K767
Prenatal mycoestrogen exposure in relation to maternal cortisol during pregnancy. *A. R. Juenke¹, C. Kinkade¹, A. Brinker¹, B. Buckley¹, J. Brunner², R. Miller², L. M. Aleksunes¹, T. G. O'Connor², Z. Rivera-Núñez¹, and E. S. Barrett¹.* ¹Rutgers University, Piscataway, NJ; and ²University of Rochester, Rochester, NY.
- #4274 **Poster Board Number** K768
An early pregnancy maternal PFAS mixture is associated with decreased gestational age at birth in a prospective birth cohort. *K. A. Campbell¹, A. Morris², S. M. Eick¹, K. Shankar³, K. J. Pearson⁴, A. Andres⁵, and T. M. Everson¹.* ¹Emory University Rollins School of Public Health, Atlanta, GA; ²Central Arkansas Veterans Affairs Healthcare System and University of Arkansas for Medical Sciences, Little Rock, AR; ³USDA Agricultural Research Services, Responsive Agricultural Food Systems Research Unit, College Station, TX; ⁴University of Kentucky College of Medicine, Lexington, KY; and ⁵University of Arkansas for Medical Sciences, Little Rock, AR.
- #4275 **Poster Board Number** K769
Adherence to a Planetary Health Diet is Associated with Lower PFAS Concentrations in a Prospective Multiethnic Cohort. *R. B. Tangha¹, Z. Li¹, A. Paik¹, H. Wang¹, S. Han¹, S. Andra², R. O. Wright², J. A. Goodrich¹, A. C. Maretta-Mira¹, L. Golden-Mason¹, D. V. Conti¹, V. Setiawan¹, and L. Chatzi¹.* ¹University of Southern California, Los Angeles, CA; and ²Icahn School of Medicine at Mount Sinai, New York, NY.
- #4276 **Poster Board Number** K770
Prenatal pesticide exposure and neuroblastoma - A statewide case-control study in California. *D. Van Deventer¹, B. Ritz¹, J. E. Heck^{2,1}, and M. Cockburn¹.* ¹University of California, Los Angeles, Los Angeles, CA; and ²University of North Texas, Denton, TX. Sponsor: O. Hankinson
- #4277 **Poster Board Number** K771
Integrating Environmental and Public Health Data for Accessible Insights into Toxicological Risk: The Montana Healthy Places Dashboard. *A. Orr, C. Leary, and E. Landguth.* University of Montana, Missoula, MT.

- #4278 **Poster Board Number K772**
Lived Experiences of The Ramapough Lenape Turtle Clan Nation: A Qualitative Study of their Perceptions and Concerns living on a Superfund Site. M. Salim Saker Santos Lima¹, S. Doherty-Lyons¹, G. Meltzer², J. T. Zelikoff¹, K. Lynch³, and V. Mann⁴. ¹NYU Langone Health, New York, NY; ²American University, Washington, DC; ³NYU School of Global Public Health, New York, NY; and ⁴Ramapough Lunaape Turtle Clan Nation, Ringwood, NJ.
- #4279 **Poster Board Number K773**
Quantitative bias assessment to facilitate assessment of (un)certainly in observational data evaluating acetaminophen use and liver cancer. M. Vincent¹, M. Wheeler¹, H. Schaefer¹, J. Rhoden², S. Fitch¹, and D. Wikoff¹. ¹ToxStrategies, A BlueRidge Life Sciences Company, Asheville, NC; and ²Kenvue Medical Clinical and Safety Sciences, Summit, NJ.
- #4280 **Poster Board Number K774**
Nicotinamide shows evidence of protection against breast cancer in prospective pregnancy cohort. P. M. Cirillo¹, X. Hu², N. Y. Krigbaum¹, B. Minasenko², S. Teeny², Y. Go², D. P. Jones², and B. A. Cohn¹. ¹Public Health Institute, Oakland, CA; and ²Emory University, Atlanta, GA.
- #4281 **Poster Board Number K775**
Vibration of effects analysis on cancer mortality for robust discovery of environmental toxicants of aggressive cancers. V. K. Nguyen¹, S. Zimmerman², L. Middleton¹, R. Rudel³, M. B. Terry³, C. Patel⁴, and J. Colacino¹. ¹University of Michigan, Ann Arbor, MI; ²The Broad Institute of MIT and Harvard, Cambridge, MA; ³Silent Spring Institute, Newton, MA; and ⁴Harvard Medical School, Boston, MA.
- #4282 **Poster Board Number K776**
From Vision to Roadmap: Building a Global Framework for the Human Exposome Project. F. C. Sillé, and T. Hartung. Center for Alternatives to Animal Testing (CAAT), Department of Environmental Health and Engineering, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD.
- #4283 **Poster Board Number K777**
Accelerating the Adoption of Safer Chemistry in Household and Industrial Cleaners: A Data-Driven Solution for Cleaner and Degreaser Ingredient Optimization. G. Rigutto, H. McKenney, and C. Bartlett. ChemFORWARD, San Fransisco, CA.

Tuesday, March 24, 9:15 AM to 11:45 AM, Exhibit Hall B, Convention Center

PS Poster Session: Inflammation

Chair(s): Ranu Surolia, University of Alabama at Birmingham.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 9:15 AM–11:45 AM

Abstract #

- #4284 **Poster Board Number K780**
Exosomal miRNA Profiles Identify Resolving Versus Non-Resolving Pulmonary Inflammation Following Nanoparticle Exposure. A. E. Siddique¹, X. Jing¹, S. Rajaram¹, Z. Hutchins², P. Thorne¹, Y. Wang², J. Cho¹, and A. Adamcakova-Dodd¹. ¹University of Iowa, Iowa City, IA; and ²University of California, Riverside, Riverside, CA.

#4285	Withdrawn.
#4286	Poster Board Number K782 Delta-8-Tetrahydrocannabinol Attenuates Colitis in Mice by Modulating Innate Immune Cell Polarization involving Epigenetic Alterations. J. I. Garcia-Sanchez, M. Nagarkatti, and P. Nagarkatti. University of South Carolina School of Medicine, Columbia, SC.
#4287	Poster Board Number K783 Indole-3-Carbinol, an AhR ligand, Attenuates Colitis by Suppressing miR-92a and miR-7a to Restore Antimicrobial Peptide Expression and Microbial Homeostasis. M. Palrasu, H. Hamida, K. Kakar, S. Thada, A. Marudamuthu, Y. Zhong, P. Nagarkatti, and M. Nagarkatti. University of South Carolina, Columbia, SC.
#4288	Poster Board Number K784 Potential contribution of sphingosine-1-phosphate to crystalline silica-induced NLRP3 inflammasome activation. J. M. Albright, R. L. Kendall, and A. Holian. The University of Montana, Missoula, MT.
#4289	Poster Board Number K785 HSCs-Macrophage Cross-Talk Mediated by IL-11 Exacerbates Liver Fibrosis. Y. Zhang ^{1,2} , J. Chen ^{1,2} , and L. Gong ^{1,2} . ¹ Center for Drug Safety Evaluation and Research, State Key Laboratory of Drug Research, Shanghai Institute of Materia Medica, Shanghai, China; and ² Zhongshan Institute for Drug Discovery, Shanghai Institute of Materia Medica, Chinese Academy of Sciences, ZhongShan, China.
#4290	Poster Board Number K786 Extracellular Vesicles Mediate Inflammatory Signaling in Arsenic-Exposed Bronchial Epithelial Cells. A. Svetlik, J. Szule, and N. Johnson. Texas A&M University, College Station, TX.

Tuesday, March 24, 1:45 PM to 4:15 PM, Exhibit Hall B, Convention Center

PS Poster Session: Carcinogenesis I

Chair(s): Rahul Kumar, North Carolina State University.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 1:45 PM–4:15 PM

Abstract #

#4291	Poster Board Number M788 Rodent Liver Tumors Produced by Activators of the Constitutive Androstane Receptor (CAR) and the Peroxisome Proliferator-Activated Receptor Alpha (PPARα) are Not Relevant to Human Cancer Risk. T. Yamada ¹ , S. M. Cohen ² , and B. G. Lake ³ . ¹ Labcorp, Tokyo, Japan; ² University of Nebraska Medical Center, Omaha, NE; and ³ University of Surrey, Surrey, United Kingdom.
#4292	Poster Board Number M789 1,4-Dioxane Induces Epithelial-Mesenchymal Transition and Carcinogenesis in an Nrf2-Dependent Manner. Z. Wang ¹ , C. Thakur ¹ , Z. Bi ¹ , Y. Qiu ¹ , W. Zhang ¹ , H. Ji ¹ , A. K. Venkatesan ² , S. Cherukuri ¹ , K. Liu ¹ , J. D. Haley ¹ , X. Mao ³ , and F. Chen ¹ . ¹ Stony Brook Cancer Center, Stony Brook, NY; ² School of Marine and Atmospheric Sciences, Stony Brook, NY; and ³ College of Engineering and Applied Sciences, Stony Brook, NY.

- #4293 **Poster Board Number** M790
Cadmium exposure promotes colorectal cancer metastasis through the dysregulation of iron metabolism. *J. Tolbert, L. Villareal, L. Goodla, and X. Xue.* University of New Mexico, Albuquerque, NM.
- #4294 **Poster Board Number** M791
Divergent Estrogen Receptor Alpha (ER α) Activation Distinguishes Hepatic Responses to Diethylstilbestrol and 17 β -Estradiol. *K. K. Venneman, M. Kotulkar, D. Paine-Cabrera, and U. Apte.* University of Kansas Medical Center, Department of Pharmacology, Toxicology and Therapeutics, Kansas City, KS.
- #4295 **Poster Board Number** M792
Adipocyte-Derived Kynurenine Enhances 3D Growth of Tamoxifen-Resistant Breast Cancer: A Potential Endogenous Toxicometabolic Mechanism. *S. Musso, R. Gonzalez Pons, and J. Bernard.* Michigan State University, East Lansing, MI.
- #4296 **Poster Board Number** M793
Berberine Modulates Cell Survival in a Peroxisome Proliferator-Activated Receptor (PPAR)-dependent Manner in a Human Malignant Melanoma Cell Line. *A. W. Faust¹, L. N. Boyer¹, D. S. Milnes¹, E. M. Kehres¹, J. M. Peters², and M. G. Borland¹.* ¹Commonwealth University of PA - Bloomsburg, Bloomsburg, PA; and ²Pennsylvania State University, University Park, PA.
- #4297 **Poster Board Number** M794
Evaluation of the Hepatotoxic Effects of Various PFAS in a Short-Term Rat Study. *S. Suzuki, M. Fujioka, G. Qi, A. Vachiraarunwong, A. Kakehashi, and M. Gi.* Osaka Metropolitan University Graduate School of Medicine, Osaka, Japan.
- #4298 **Poster Board Number** M795
Investigating the Effects of Chronic Arsenic Exposure in Human Keratinocytes Overexpressing hsa-miR-362. *J. L. Scott, G. Rodriguez, T. B. Emran, L. Abozaid, and J. C. States.* University of Louisville, Louisville, KY.
- #4299 **Poster Board Number** M796
Curcumin Analogues Trigger HMOX-1-Mediated Ferroptosis to Halt Endometrial Cancer Growth. *X. Wu, K. Leslie, and X. Xue.* University of New Mexico, Albuquerque, NM.
- #4300 **Poster Board Number** M797
Ursolic Acid Modulates Cell Survival in a Peroxisome Proliferator-Activated Receptor (PPAR)-dependent Manner in a Human Malignant Melanoma Cell Line. *N. C. McKee¹, K. A. Liebersohn¹, H. L. Hudak¹, K. B. Wood¹, E. M. Kehres¹, J. M. Peters², and M. G. Borland¹.* ¹Commonwealth University of PA - Bloomsburg, Bloomsburg, PA; and ²Pennsylvania State University, University Park, PA.
- #4301 **Poster Board Number** M798
Investigating Cadmium's Adipogenic Effects on Breast Cancer Metastasis in the Bone Niche. *S. C. Helewicz, C. M. McVeigh, J. L. Moreno, and A. M. Bolt.* University of New Mexico, Albuquerque, NM.
- #4302 **Poster Board Number** M799
KEAP1-NRF2 modulation via posttranslational modifications with the nitro-PAH 3-nitrobenzanthrone. *C. F. Marques¹, K. El-Bayoumy², and T. M. Penning³.* ¹Department of Systems Pharmacology and Translational Therapeutics, University of Pennsylvania Perelman School of Medicine, Philadelphia, PA; ²Department of Molecular and Precision Medicine, Penn State College of Medicine, Pennsylvania State University, Hershey, PA; and ³Center of Excellence in Environmental Toxicology & Department of Systems Pharmacology and Translational Therapeutics, University of Pennsylvania Perelman School of Medicine University of Pennsylvania, Philadelphia, PA.

- #4303 **Poster Board Number** M800
Myricetin and Capsaicin synergistically reduce the proliferation of human hepatoma cells by inhibiting Ki-67, PCNA, and HIF1A expression. J. Whitfield, and X. Cheng. St. John's University, Jamaica, NY.
- #4304 **Poster Board Number** M801
Genetic Toxicology Studies on trans-1,2-difluoroethene (R-1132-(E)). Z. Guo, T. Nakaue, and S. Tokuno. Daikin Industries, Ltd., Osaka, Japan. Sponsor: T. Fukuyama
- #4305 **Poster Board Number** M802
The Metabolo-Epigenetic Role of AS3MT in Arsenic Exposure. S. G. Avila-Barnard, S. Deme, H. Jiang, Y. Kang, and P. Allard. University of California, Los Angeles, Los Angeles, CA.
- #4306 **Poster Board Number** M803
Reconsidering False Positive Rates for a Portfolio of Carcinogenicity Studies in Rats and Mice. K. S. Konrad¹, L. Betz¹, S. Harris¹, H. Cunney², and K. Shockley³. ¹DLH LLC, Bethesda, MD; ²Division of Translational Toxicology, National Institute of Environmental Health Sciences, Research Triangle Park, NC; and ³Division of Intramural Research, National Institute of Environmental Health Sciences, Research Triangle Park, NC.
- #4307 **Poster Board Number** M804
Getting the big picture of data-rich chemicals: Survey sampling increased efficiency in mapping mechanistic data for polycyclic aromatic hydrocarbons. G. Chappell¹, B. E. Howard², A. Varghese¹, W. Arroyave³, R. M. Lunn⁴, L. Schmidt², J. W. Tracy⁵, R. Silva⁵, H. Cunney⁴, K. Shipkowski⁴, A. A. Rooney⁴, and A. Wang⁴. ¹ICF, Reston, VA; ²Sciome, Durham, NC; ³Inotive, Durham, NC; ⁴NIEHS/DTT, RTP, NC; and ⁵ICF, Durham, NC.
- #4308 **Poster Board Number** M805
Conserved Alternative Splicing Events Underlie Spontaneous and Chemically Induced Hepatocellular Carcinomas in B6C3F1/N mice. K. Kanchi, M. Xu, T. Ton, J. Li, R. C. Sills, and A. R. Pandiri. The National Institute of Environmental Health Sciences, Durham, NC. Sponsor: C. Rider
- #4309 **Poster Board Number** M806
Putative lncRNA-miRNA-mRNA Interactions Distinguish Spontaneous and Chemically Induced Mouse Hepatocellular Carcinomas. M. Xu, K. Kanchi, A. Brooks, T. Ton, J. Li, R. Sills, and A. R. Pandiri. The National Institute of Environmental Health Sciences, Durham, NC. Sponsor: C. Rider
- #4310 **Poster Board Number** M807
Methylation and Transcriptomic Alterations Drive Tumor Promotion Pathways in Chemically Induced Mouse Hepatocellular Carcinomas. A. R. Pandiri, K. Kanchi, M. Xu, T. Ton, A. Brooks, L. Wharey, K. Gerrish, J. Li, and R. C. Sills. The National Institute of Environmental Health Sciences, Durham, NC. Sponsor: C. Rider
- #4311 **Poster Board Number** M808
Mode of Action Analysis of the Tumor Triad Induced by DEHP. A. Luz¹, D. Alewel¹, C. Corton¹, J. Allran¹, C. Beachum¹, and A. Lowit². ¹US EPA, Research Triangle Park, NC; and ²US EPA, Washington, DC, DC.
- #4311a **Poster Board Number** M809
A Multi-Lab Single-Cell and interpretable AI Investigation of Pesticide NGTx Mechanisms in 3D Lung Models. H. Groux¹, F. Cottrez¹, E. Boitel¹, L. Peyre-Teisseire¹, G. Vassaux², B. Mari², C. Bonjour², L. Guardini², J. Mille², C. Pasquier³, F. Abou Choucha³, X. Fernandez⁴, C. Dubois⁴, V. Ventos⁵, and J. Darmon⁵. ¹ImmunoSearch, Grasse, France; ²Institut de Pharmacologie Moléculaire et Cellulaire (IPMC) UMR7275 CNRS - Inserm U1323 - Université Côte d'Azur, Sophia Antipolis, France; ³Université Côte d'Azur, CNRS, I3S, Sophia Antipolis, France; ⁴CNRS - Institut de Chimie de Nice Université Côte d'Azur, Nice, France; and ⁵NukkAI, Paris, France. Sponsor: F. Gerberik

Tuesday, March 24, 1:45 PM to 4:15 PM, Exhibit Hall B, Convention Center

PS Poster Session: Genotoxicity/DNA Repair

Chair(s): Sebastian Medina, University of New Mexico Health Sciences Center.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 1:45 PM–4:15 PM

Abstract #

- #4312 **Poster Board Number** M810
DNA Damage Evaluation of Benzo[b]Fluoranthene (B[b]F) Using Rat Liver Comet Assay.
J. A. Bhalli, B. Yard, S. Philips, and M. Simolin. Frontage Laboratories, Concord, OH.
- #4313 **Poster Board Number** M811
Evaluating the Applicability of the ICH M7 Less Than Lifetime Concept to N-Nitrosomorpholine Using Error-Corrected next-generation sequencing. S. Zhang. Pfizer, Groton, CT. Sponsor: S. Zhang, Environmental Mutagenesis and Genomics Society
- #4314 **Poster Board Number** M812
Investigation of the Effects of Dimethyl Sulfoxide on the *in vivo* Micronucleus Test in Rats. H. Ouchi, Y. Ikeuchi, K. Tanioka, M. Shoji, T. Takahashi, and T. Shoda. Toxicology Research Laboratories, Yokohama Research Center, Shionogi & Co., Ltd., Yokohama, Kanagawa, Japan. Sponsor: H. Ouchi, Japanese Society of Toxicology
- #4315 **Poster Board Number** M813
Optimization of S9 metabolism protocols for *in vitro* genotoxicity testing. G. Hendriks. Toxys, Leiden, Netherlands.
- #4316 **Poster Board Number** M814
Repair Assisted Damage Detection (RADD), a versatile tool for measuring DNA damage across species and damage types. N. R. Gassman, A. Hernandez, H. Levi, N. Mukherjee, J. Hedlich-Dwyer, and T. Morrison. University of Alabama at Birmingham, Birmingham, AL.
- #4317 **Poster Board Number** M815
Regulatory-Compliant Genetic Toxicology Assessment for Tides. M. Zhang, L. Gao, M. Chen, X. Li, and R. Zhang. WuXi AppTec (Suzhou) Co., Ltd., Suzhou, China.
- #4318 **Poster Board Number** M816
Strengthening the Weight of Evidence: Fifty-Seven Regulatory Studies Confirm Lack of Genotoxicity for Bayer Glyphosate-Based Formulations. E. Webb¹, D. Farmer¹, and L. Kier². ¹Bayer CropScience, Chesterfield, MO; and ²Private Consultant, Saint Louis, MO.
- #4319 **Poster Board Number** M817
Not all literature-based structural alerts lead to mutagenicity. L. Gao, D. Li, R. Zhou, J. Wang, X. Ren, S. Jiang, M. Chen, X. Li, and R. Zhang. WuXi AppTec (Suzhou) Co., Ltd., Suzhou, China.
- #4320 **Poster Board Number** M818
Control Charting and Variance Partitioning of Historical Negative Controls: Rat Liver Micronuclei as a Real-World Example. S. Avlasevich, and S. Dertinger. Litron Laboratories, Rochester, NY.
- #4321 **Poster Board Number** M819
Generalizability of an S9 Metabolic Activation System Optimized for Nitrosamines: *In vitro* MicroFlow and MultiFlow Assay Results. S. Bryce, S. Avlasevich, J. Bemis, and S. Dertinger. Litron Laboratories, Rochester, NY.

- #4322 **Poster Board Number** M820
Hemoglobin N-(2-Hydroxyethyl)valine as a Noninvasive Surrogate of Ethylene Oxide Exposure Correlating with DNA Adduct Formation. J. Feng, C. Liu, J. Peng, H. Zhao, X. Wang, and K. Lu. University of North Carolina at Chapel Hill, Chapel Hill, NC.
- #4323 **Poster Board Number** M821
Optimization of an Exogenous Metabolic Activation System for the Detection of Nitrosamines with Human Cell-Based Genotoxicity Assays. S. Avlasevich, J. Bemis, S. Dertinger, and S. Bryce. Litron Laboratories, Rochester, NY.
- #4324 **Poster Board Number** M822
Elucidation of Mitochondrial Nucleic Acid Signals Under Genotoxic Stress. A. Rios, A. Jana, Y. Chen, and L. Zhao. University of California Riverside, Riverside, CA.
- #4325 **Poster Board Number** M823
Genotoxicity and Oral Repeated Dose Toxicity Studies with Brominata™, an Anti-Methanogenic Feed Additive for Cattle. J. S. Kozal¹, and E. Fung². ¹Integral Consulting, San Francisco, CA; and ²Integral Consulting, Los Angeles, CA.
- #4326 **Poster Board Number** M824
DNA Adductomics to Support the Assessment of Alcohol's Genotoxicity. M. Sausen¹, B. Chavanel², F. Jacobs¹, D. Mckeen¹, M. Korenjak², P. W. Villalta¹, J. Zavidil², and S. Balbo¹. ¹University of Minnesota, Minneapolis, MN; and ²International Agency for Research on Cancer, Lyon, France.
- #4327 **Poster Board Number** M825
Inclusion of structural alerts for the detection of substances from the Cohort of Concern in a combined mutagenicity prediction model. J. Tolosa, M. Palomino-Schätzlein, E. Serrano-Candelas, M. Ruiz, and R. Gozalbos. Faculty of Pharmacy. University of Valencia, Burjassot-Valencia, Spain. Sponsor: A. Anadón
- #4328 **Poster Board Number** M826
Implementation of an hOGG1-Enhanced *In Vivo* Comet Assay to Identify Particle-Induced DNA Damage in Rat Lung Tissue Following Instillation. G. Bruer, H. Angelov, H. Brockmeyer, M. Djuari, M. Engelke, C. Müller, J. Wabra, M. Winkler, and C. Ziemann. Fraunhofer Institute for Toxicology and Experimental Medicine (Fh-ITEM), Hannover, Germany. Sponsor: S. Escher
- #4329 **Poster Board Number** M827
Mitochondrial Glutathionylated DNA Adducts: Accumulation, Regulation, and Biological Implications. L. Zhao. University of California, Riverside, Riverside, CA. Sponsor: D. Eastmond
- #4330 **Poster Board Number** M828
Benzo[b]fluoranthene induces mutation accumulation and human cancer-relevant mutational signatures in mouse lung alongside steady state levels of chromosome damage in blood. X. Zhang¹, C. A. Hobbs², M. V. Rivas², A. Diesing², D. P. LeBlanc³, G. Zhou³, J. F. Foley¹, P. A. White³, F. Marchetti³, C. L. Yauk⁴, and S. L. Smith-Roe¹. ¹NIEHS, Durham, NC; ²Inotiv, Research Triangle Park, NC; ³Health Canada, Ottawa, ON, Canada; and ⁴University of Ottawa, Ottawa, ON, Canada.

PS Poster Session: Ocular Toxicology

Chair(s): Mercedes Salvador-Silva, Alcon.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 9:15 AM–11:45 AM

Abstract #

- #4331 **Poster Board Number** M830
Correlation of Dietary Antioxidant Levels to Incidence and Severity of Oteseconazole-induced Nuclear Opacities in Peri-Postnatal Development (PPND) Studies. T. Degenhardt¹, S. Brand¹, X. Fan², and M. D. Aleo³. ¹Mycovia Pharmaceuticals, Inc., Durham, NC; ²Medical College of Georgia at Augusta University, Augusta, GA; and ³TOXinsights360, LLC, Boiling Springs, PA.
- #4332 **Poster Board Number** M831
Dietary Vitamin K-Dependent Coagulopathy and Ocular Bleeding Events in Rat Pups Treated with Oteseconazole During Peri-Postnatal Development (PPND) Studies. S. Brand¹, T. Degenhardt¹, M. Brooks², V. Lattard³, N. Chatron³, and M. D. Aleo⁴. ¹Mycovia Pharmaceuticals, Inc., Durham, NC; ²Cornell University College of Veterinary Medicine, Ithaca, NY; ³VetAgro Sup, Marcy l'Etoile, France; and ⁴TOXinsights360, LLC, Boiling Springs, PA.
- #4333 **Poster Board Number** M832
Multifocal ERG and VEP-Based Evaluation of Retinal and Cortical Function in Cynomolgus Monkeys with Simulated Deficits and Ocular Hypertension. A. Masuda, T. Araki, and K. Hayashida. Shin Nippon Biomedical Laboratories Ltd., Kagoshima-city, Japan. Sponsor: T. Araki, Japanese Society of Toxicology
- #4334 **Poster Board Number** M833
MG53 promotes corneal repair and nerve regeneration following chemical-induced injury. L. Zhang¹, C. Madden¹, J. Ma², H. Zhu¹, K. Swindle-Reilly¹, and H. Chandler¹. ¹The Ohio State University, Columbus, OH; and ²University of Virginia, Charlottesville, VA.
- #4335 **Poster Board Number** M834
Development of a Quantitative and Objective Scoring System for Drug-induced Ocular Toxicity. J. Choi, Y. Lee, Y. Ko, H. Chung, D. Go, J. Gwon, J. Kim, and S. Park. Biototech Co., Ltd., Cheongju-si, Korea, Republic of.
- #4336 **Poster Board Number** M835
Reproductive Risk Assessment of Intravitreal Biopharmaceuticals in the Last 20 Years: A Comparative Evaluation of Marketed IVT Biologics. G. Campoy¹, and J. A. Lansita². ¹ToxAlliance, Seattle, WA; and ²ToxAlliance, Kennett Square, PA. Sponsor: G. Campoy, American College of Toxicology
- #4337 **Poster Board Number** M836
Comparison of Ocular Features in Bama and Göttingen Minipigs. X. Jing, C. Guo, Y. Zhang, and Y. Zhou. WuXi AppTec (Suzhou) Co., Ltd., Suzhou, China.
- #4338 **Poster Board Number** M837
Safety Profiling of Ocular Buffers in the Context of Posterior Segment Gene and Cell Therapeutics. X. Zhang, S. Puri, G. Gum, and S. Kumar. Pharmaron San Diego Lab Services, Carlsbad, CA. Sponsor: M. Lyulkin

- #4339 **Poster Board Number** M838
Ocular Topical RTA 408-Mediated NRF2 Activation Mitigates Chloropicrin-Induced Corneal Injury. O. E. Okoyeocha, P. Chu, C. McGreer, K. Zach, S. Lundback, A. Roney, A. Stammersky, and N. Tewari-Singh. Michigan State University, East Lansing, MI.
- #4340 **Poster Board Number** M839
Generation of a Novel Immortalized Human Corneal Epithelial Cell Line for Reliable In Vitro Ocular Toxicity Studies. O. Beebe, N. Lee, F. Tian, and X. Zhao. ATCC, Gaithersburg, MD. Sponsor: F. Tian, American Association for Cancer Research
- #4341 **Poster Board Number** M840
Novel putative mechanism of corneal toxicity associated with netarsudil. S. Kaja, B. Hussein, E. G. Krupa, D. Simoens, and L. D. Troughton. Loyola University Chicago, Maywood, IL.
- #4342 **Poster Board Number** M841
Particulate matter PM₄ and PM₁₀ elicit neutrophil pathology in vitro . E. G. Krupa¹, S. Iqbal¹, S. Jain², and S. Kaja¹. ¹Loyola University Chicago, Maywood, IL; and ²University of Illinois Chicago, Chicago, IL.
- #4343 **Poster Board Number** M842
Distinct retinal epithelial responses to carbon black nanoparticles versus PM2.5: oxidative stress-driven EMT and barrier disruption. A. Jiménez-Chávez, K. Castillo, D. A. Herman, M. T. Kleinman, and A. De Vizcaya-Ruiz. University of California, Irvine, Irvine, CA.
- #4344 **Poster Board Number** M843
Topical dexamethasone intervention reduces acute and delayed ocular damage in sulfur mustard vapor-exposed rabbit eyes. R. Tripathi, S. Ahmad, A. T. Doney, A. B. Stone, C. A. Sousa, S. Cayea, V. H. Vuong, S. P. Shenoy, K. A. Brigham, and P. M. McNutt. Wake Forest Institute for Regenerative Medicine, Wake Forest University School of Medicine, Winston-Salem, NC.
- #4345 **Poster Board Number** M844
The Effect of Glucagon-like Peptide 1 (GLP-1) Receptor Agonists and Estradiol Treatment on the Diabetic Inner Retinal Blood Barrier. M. Soe, K. Zhang, and M. Vazquez. Rutgers University, Piscataway, NJ.
- #4346 **Poster Board Number** M845
Development of an in chemico test battery to assess eye irritation of surfactants and surfactant-dominant consumer products. A. Stacy, S. Engled, D. Alers, and J. Rose. Procter and Gamble, Mason, OH.
- #4347 **Poster Board Number** M846
NWD-19: A First-in-Class Mitochondrial Therapeutic Demonstrating Safety and Efficacy in Chemical-Induced Ocular Surface Injury. A. Banerjee¹, S. Kaja², T. Czepiel¹, T. Nguyen¹, M. Lindeblad¹, and R. Giri³. ¹University of Illinois at Chicago, Chicago, IL; ²Loyola University Chicago, Maywood, IL; and ³N'waii Inc., Chicago, IL.

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Wednesday, March 25, 1:45 PM to 4:15 PM, Exhibit Hall B, Convention Center

PS Poster Session: AI/Machine Learning II

Chair(s): Katrina Waters, Pacific Northwest National Laboratory.

Displayed: 9:00 AM–4:30 PM | Author Attended: 1:45 PM–4:15 PM

Abstract

- | | |
|-------|---|
| #4348 | Withdrawn |
| #4349 | <p>Poster Board Number A101
 Modeling Exposure to Polycyclic Aromatic Hydrocarbons (PAHs) in Placentae using Antibody-based Array Proteomics and Machine Learning. C. Coarfa, S. L. Grimm, A. Koirala, V. Putluri, A. H. Kamal, N. Putluri, S. Huang, B. Moorthy, and M. Suter. Baylor College of Medicine, Houston, TX.</p> |
| #4350 | <p>Poster Board Number A102
 ToxIndex: An agentic AI orchestrator for toxicology expert tools. K. Han, M. Nagyal, J. Mikhail, S. Mitra, I. Ballone, T. Bozada, Z. Mughal, and T. Luechtefeld. Insilica, Rockville, MD.</p> |
| #4351 | <p>Poster Board Number A103
 ToxInsightor: Exploring Alternatives to Animal Use for Safety Assessment - a Case Study of Antibody-Drug Conjugates (ADCs). L. Millin, and Z. Liu. Boehringer Ingelheim, Ridgefield, CT.</p> |
| #4352 | <p>Poster Board Number A104
 A Comparative Assessment of Large Language Model (LLM) Performance in Answering Target Safety Assessment Questions. V. B. Siramshetty¹, Y. Chang², S. Mielke¹, L. T. Anger¹, E. Mutter-Rottmayer¹, S. Laing¹, R. Sullivan¹, S. Ra¹, and C. Hasselgren¹. ¹Genentech, Inc., South San Francisco, CA; and ²Rancho Biosciences, San Diego, CA.</p> |
| #4353 | <p>Poster Board Number A105
 Predicting Multi-Protein Corona Adsorption Patterns Using a Deep Conditional VAE-GAN Model. A. Canchola, H. Le, K. Li, and W. Chou. University of California, Riverside, Riverside, CA.</p> |
| #4354 | <p>Poster Board Number A106
 Dual Readout: Predicting Affinity and Actionable Holo-Complex Structures with In Silico Safety Screening. E. B. Miller¹, D. Coskun¹, M. Lihan¹, H. Hwang¹, L. Denluck², C. Andersen¹, M. Liu¹, K. Lewsig¹, R. A. Friesner³, and R. Abel¹. ¹Schrodinger, New York, NY; ²Schrodinger, Portland, OR; and ³Columbia University, New York, NY.</p> |
| #4355 | <p>Poster Board Number A107
 Evaluation of Single and Multitask Methods for Secondary Pharmacology Prediction with Cross-Panel Validation. X. Niu, V. B. Siramshetty, L. Anger, S. Kakiuchi-Kiyota, C. Hasselgren, and F. Melnikov. Genentech, South San Francisco, CA.</p> |
| #4356 | <p>Poster Board Number A108
 Investigating the mechanisms of emerging and legacy contaminants bioconcentration in fish tissues using machine learning models. S. Dhayade¹, D. Chodvadiya¹, Y. Fan², F. Gao², and Y. Shen¹. ¹University of Texas at Arlington, Arlington, TX; and ²University of California Los Angeles, Los Angeles, CA.</p> |

#4357	Poster Board Number A109 Examining Lead Emissions in the Computers/Electronics Industry and Their Relationship with Socioeconomic and Health Outcomes. <i>S. Dhayade</i> ¹ , <i>N. Ho</i> ² , <i>F. Gao</i> ² , and <i>Y. Shen</i> ¹ . ¹ University of Texas at Arlington, Arlington, TX; and ² University of California Los Angeles, Los Angeles, CA.
#4358	Poster Board Number A110 Leveraging Targeted Gene Sets and Neural Networks for Zebrafish Transcriptome Extrapolation in High-Throughput Toxicogenomics. <i>B. E. Howard</i> ¹ , <i>D. Mav</i> ¹ , <i>M. Balik-Meisner</i> ¹ , <i>D. Phadke</i> ¹ , <i>E. H. Scholl</i> ¹ , <i>A. J. Green</i> ¹ , <i>R. R. Shah</i> ¹ , <i>L. Truong</i> ² , <i>L. Lin</i> ² , and <i>R. L. Tanguay</i> ² . ¹ Sciome LLC, Research Triangle Park, NC; and ² Oregon State University, Corvallis, OR.
#4359	Poster Board Number A111 Learning Aging and Disease related Epigenetic Trajectory for Type 1 Diabetes. <i>F. Gao</i> . UCLA, Los Angeles, CA.
#4360	Poster Board Number A112 Advancing Molecular Design: Leveraging Language Models for Modular <i>De Novo</i> Compound Generation via LlamaSMILES. <i>C. Norman</i> , <i>B. E. Howard</i> , <i>A. J. Green</i> , <i>A. Y. Sedykh</i> , <i>A. Borrel</i> , <i>V. K. Gombor</i> , <i>D. Svoboda</i> , and <i>R. R. Shah</i> . Sciome LLC, Research Triangle Park, NC.
#4362	Poster Board Number A114 AI-Assisted Physiologically Based Pharmacokinetic (PBPK) Modeling with Transfer Learning to Predict Biodistribution of Diverse Microplastics. <i>A. Ukbamichael</i> , <i>A. Canchola</i> , <i>H. Nandula</i> , and <i>W. Chou</i> . University of California Riverside, Riverside, CA.
#4363	Poster Board Number A115 CONNECT Knowledgebase: Cohort-Oriented Network kNowledgebase for Enhanced CollaboraTion. <i>Y. Shen</i> ¹ , <i>L. T. Mwibashiye</i> ¹ , <i>D. A. Chodvadiya</i> ¹ , <i>X. Wang</i> ¹ , <i>J. A. Stingone</i> ² , and <i>F. Gao</i> ³ . ¹ University of Texas at Arlington, Arlington, TX; ² Columbia University, New York, NY; and ³ University of California, Los Angeles, Los Angeles, CA.

Wednesday, March 25, 9:15 AM to 11:45 AM, Exhibit Hall B, Convention Center

PS Poster Session: Computational Toxicology

Chair(s): Nathalie Pham, California Environmental Protection Agency.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 9:15 AM–11:45 AM

Abstract

#4364	Poster Board Number A117 Predictive Modeling for Toxicovigilance in HIV Therapy: Leveraging Machine Learning and National Surveillance Data in Resource-Limited Settings. <i>V. Thurairasu</i> . Department of Public Health, Ministry of Health, Malaysia.
#4365	Withdrawn.
#4366	Poster Board Number A119 Safety-ome and Panels for Over 3,000 Phenotypes: a Systematic and Translational Approach Using Human Genetics and Pharmacology. <i>Y. Chen</i> , <i>X. Liu</i> , <i>X. Xu</i> , <i>D. Smith</i> , and <i>F. Fan</i> . Johnson and Johnson, San Diego, CA.

- #4367 **Poster Board Number A120**
Integrating Machine Learning and *In Vitro* Assays to Evaluate Phthalate-Induced Reproductive Toxicity. T. Wang^{1,2}, C. Potts³, X. Jia^{1,2}, B. Ji^{1,2}, G. R. Warner³, and H. Zhu^{1,2}. ¹Center for Biomedical Informatics and Genomics, School of Medicine, Tulane University, New Orleans, LA; ²Department of Chemistry and Biochemistry, Rowan University, Glassboro, NJ; and ³Department of Chemistry and Environmental Science, New Jersey Institute of Technology, Newark, NJ.
- #4368 **Poster Board Number A121**
***In silico* modeling of on-target and off-target safety pharmacology of oligonucleotides.** K. Hu, J. Zhang, X. Du, and F. He. Pharmaron Beijing Co., Ltd., Beijing, China. Sponsor: S. Luo
- #4369 **Poster Board Number A122**
Predicting Target Tissues of Chemical Exposure Using Coupled Tensor-Matrix Completion. K. Wang. Indiana University, Bloomington, IN.
- #4370 **Poster Board Number A123**
Mechanistic insights in toxicological risk assessment: integration of transcriptomics into the Adverse Outcome Pathways liver network. M. van Schaick¹, M. Martens², S. Adil², E. Willighagen², B. van de Water¹, and G. Callegaro¹. ¹Division of Cell Systems and Drug Safety, Leiden Academic Centre for Drug Research, Leiden University, Leiden, Netherlands; and ²Department of Translational Genomics Maastricht University, Maastricht, Netherlands.
- #4371 **Poster Board Number A124**
Tricyclic pyrone CP2 restores lipid and energy dyshomeostasis in the APP/PS1 mouse model of Alzheimer's disease. E. Gabal^{1,2}, T. Nguyen³, C. Funk⁴, P. Baloni^{1,2}, and E. Trushina^{3,5}. ¹School of Health Sciences, Purdue University, West Lafayette, IN; ²Purdue Institute for Integrative Neuroscience, Purdue University, West Lafayette, IN; ³Department of Neurology, Mayo Clinic, Rochester, MN; ⁴Institute for Systems Biology, Seattle, WA; and ⁵Department of Molecular Pharmacology and Experimental Therapeutics, Mayo Clinic, Rochester, MN.
- #4372 **Poster Board Number A125**
Performance of Different Virtual Control Group Generation Approaches. N. Becker¹, M. Dammann¹, K. Becker¹, F. M. Kluxen², J. Cairns¹, D. Funk-Weyer¹, C. Gomes¹, R. Buesen¹, and M. Dilger¹. ¹BASF SE, Ludwigshafen, Germany; and ²BASF SE, Limburgerhof, Germany. Sponsor: R. Landsiedel
- #4373 **Poster Board Number A126**
Machine Learning-Enabled Extraction and Analysis of Thyroid Endpoints from Regulatory Documents. M. Nagyal¹, T. Luechtefeld¹, F. Bailey², C. Koenig³, B. Riffle⁴, E. Freeman⁵, and A. Karmaus⁶. ¹Insilica LLC, Rockville, MD; ²NuFarm, Toronto, ON, Canada; ³Corteva, Indianapolis, IN; ⁴BASF Agricultural Solutions US LLC, RTP, NC; ⁵Exponent, Washington DC, DC; and ⁶Syngenta Crop Protection LLC, Greensboro, NC.
- #4374 **Poster Board Number A127**
Understanding the mechanisms behind liver vs. kidney susceptibility to fenofibrate overdose. V. R. Pannala^{1,2}, M. R. Balik-Meisner³, D. Mav³, D. P. Phadke³, E. H. Scholl³, R. R. Shah³, W. Casey⁴, S. S. Auerbach⁴, and A. Wallqvist². ¹The Henry M. Jackson Foundation for the Advancement of Military Medicine, Inc., Bethesda, MD; ²Department of Defense Biotechnology High Performance Computing Software Applications Institute, Defense Health Agency Research & Development, Medical Research and Development Command, Fort Detrick, MD; ³Sciome LLC, Research Triangle Park, NC; and ⁴Division of Translational Toxicology, National Institute of Environmental Health Sciences, Research Triangle Park, NC.
- #4375 **Poster Board Number A128**
Identifying mitochondrial bioenergetic changes and NAD⁺ modulation associated with cognitive resilience in Alzheimer's Disease. P. Baloni¹, P. Mandal¹, E. Trushina², M. Arnold³, and R. Kaddurah-Daouk⁴. ¹Purdue University, West Lafayette, IN; ²Mayo Clinic, Rochester, MN; ³Institute of Computational Biology, Neuherberg, Germany; and ⁴Duke University, Durham, NC.

- #4376 **Poster Board Number A129**
Development of an Interpretable Structure-Activity Relationship Model for Predicting Hepatotoxicity in Repeated-Dose Toxicity Studies. K. Jojima^{1,2}, T. Yamada¹, S. Matsumura¹, M. Fujii¹, and K. Masumura¹. ¹National Institute of Health Sciences, Kawasaki, Kanagawa, Japan; and ²Graduate School of Pharmaceutical Sciences, Osaka University, Suita, Osaka, Japan.
- #4377 **Poster Board Number A130**
Bridging *In Vitro* Bioactivity to Clinical Adverse Drug Events Through a Multimodal Knowledge Graph Modeling Framework. N. J. Daood^{1,2}, J. Ouyang³, L. Li³, and H. Zhu^{1,2}. ¹Tulane University School of Medicine, New Orleans, LA; ²Rowan University, Glassboro, NJ; and ³The Ohio State University, Columbus, OH.
- #4378 **Poster Board Number A131**
Integrating Chemical Perturbation Signatures for *In Silico* Toxicity Prediction. S. Mikami^{1,2}, J. Takeshita², A. Ohoka³, K. Ambe⁴, K. Yoshinari³, and M. Iida¹. ¹Kyushu Institute of Technology, Iizuka, Japan; ²National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, Japan; ³University of Shizuoka, Shizuoka, Japan; and ⁴Nagoya City University, Nagoya, Japan.
- #4379 **Poster Board Number A132**
An AI-powered method for evaluating *in vivo* level toxicity from genomic dose-response data. A. Weissmann¹, and K. Shao². ¹DREAM Tech, LLC, Bloomington, IN; and ²Indiana University, Bloomington, IN.
- #4381 **Poster Board Number A134**
Mitigating features in *quinoline* derivatives: an expert-review SAR analysis of indeterminate QSAR predictions. M. Lettieri, M. Rodda, G. De Angelis, G. Baldone, L. Brunasso, E. Gillio Tos, V. Carlucci, and A. Conto. Chemsafe, Colletterto Giacosa, Italy.
- #4382 **Poster Board Number A135**
QSAR Models to Anticipate the Degradation of Common Chemical Functional Groups. K. Reiss, and S. Chakravarti. MultiCASE Inc., Mayfield Heights, OH.
- #4383 **Poster Board Number A136**
ToxMet: a web-tool for the analysis of toxicogenomic data using genome-scale metabolic modeling. A. Hari^{1,2}, Z. Xu^{1,2}, Z. Smith^{1,2}, V. Desai^{1,2}, W. Casey³, S. S. Auerbach³, A. Wallqvist¹, and V. R. Pannala^{1,2}. ¹Department of Defense Biotechnology High Performance Computing Software Applications Institute, Frederick, MD; ²The Henry M. Jackson Foundation for the Advancement of Military Medicine Inc., Bethesda, MD; and ³Division of Translational Toxicology, National Institute of Environmental Health Sciences, Research Triangle Park, NC.
- #4384 **Poster Board Number A137**
Supporting source-to-outcome assessment in toxicology through data interoperability. D. Hines¹, S. Bell¹, C. M. Hamilton¹, N. Harris², S. Moxon², C. Mungall², M. Nelms¹, J. Rineer¹, and D. Williams¹. ¹RTI International, Research Triangle Park, NC; and ²Lawrence Berkeley National Laboratory, Berkeley, CA.
- #4385 **Poster Board Number A138**
Statistical Evaluation of DrugMatrix and Open TG-GATEs for Construction of an Integrated Toxicogenomics Resource. Y. Chen¹, G. Cong², S. Lim², F. Chao³, and S. S. Auerbach³. ¹University of Minnesota Twin Cities, Minneapolis, MN; ²Oak Ridge National Laboratory, Oak Ridge, TN; and ³National Institute of Environmental Health Sciences, Durham, NC.
- #4386 **Poster Board Number A139**
BioBricks-OKG: An Open Knowledge Graph Infrastructure for Integrating Chemical Safety and Toxicology Data. Z. Mughal, A. Nagyal, J. Mikhail, K. Han, M. Nagyal, S. Mitra, and T. Luechtefeld. Insilica, Rockville, MD.

- #4387 **Poster Board Number A140**
Human liver microtissue gene networks enable mechanisms-based chemical safety assessment. S. J. Kunnen¹, A. Borgström², L. Fäs², A. Pawlowska², T. M. Hagens¹, L. J. Sinke¹, S. Bahtiri¹, L. S. Wijaya¹, G. Callegaro¹, W. Moritz², and B. van de Water¹. ¹Leiden University, Leiden, Netherlands; and ²InSphero, Schlieren, Switzerland.
- #4388 **Poster Board Number A141**
Integrated Multiomic analysis of arsenic-induced perturbations to the pluripotency network of mouse embryonic and epiblast-like stem cells. S. Deme, Y. Kang, S. Armstrong Suthahar, and P. Allard. UCLA, Los Angeles, CA.
- #4389 **Poster Board Number A142**
Metabolism of Selected N-Nitrosamine Drug Substance-Related Impurities: Insights from the MUTAMIND Project. K. P. Cross¹, S. Greco², A. Bassan², J. Irwan³, A. Londenberg³, D. Palazzotti², and S. E. Escher³. ¹Instem, Conshohocken, PA; ²Innovatune, Padova, Italy; and ³Fraunhofer Institute for Toxicology and Experimental Medicine, Hannover, Germany.
- #4390 **Poster Board Number A143**
Unified Transcriptomic Cell Atlas of Human Neural *In Vitro* Systems. D. S. Umbaugh, J. G. Roth, S. Niu, A. Lopez Tobon, S. Kang, and F. Melnikov. Genentech, South San Francisco, CA.
- #4391 **Poster Board Number A144**
Bayesian Evaluation of a Physiologically Based Pharmacokinetic (PBPK) Model to Characterize Size-Dependent Biodistribution of Microplastics in Mice. A. Ukbamichael, H. Nandula, A. Canchola, and W. Chou. University of California, Riverside, Riverside, CA.
- #4392 **Poster Board Number A145**
Integrating Artificial Intelligence to Advance Chemical and Carcinogenic Risk Assessment in Medico-Legal QME Practice. A. Radfar, I. Filip, and A. Derekhshani. Avicenna Clinical and Medical Research Institute, Mission Viejo, CA.
- #4393 **Poster Board Number A146**
SMILES to brain: predicting blood-brain barrier permeability of environmental chemicals. N. Pelayo¹, D. Li², and F. Gao¹. ¹University of California Los Angeles, Los Angeles, CA; and ²University of Nevada Reno, Reno, NV.
- #4394 **Poster Board Number A147**
Filling Gaps in Toxicity Data of Pesticides with OrbiTox - a repository of multidomain experimental data and predictive models. V. K. Gombar, T. Petty, A. Y. Sedykh, A. Borrel, A. J. Green, A. P. Ross, and R. R. Shah. Sciome LLC, Research Triangle Park, NC.
- #4395 **Poster Board Number A148**
ChemHydra: A Novel AI-Driven Pipeline for ADME, Physicochemical, and Toxicity Endpoint Prediction Integrating Advanced Chemical Characterization. A. Borrel, A. J. Green, A. Y. Sedykh, T. Petty, A. P. Ross, V. K. Gombar, and R. R. Shah. Sciome LLC, Research Triangle Park, NC.
- #4396 **Poster Board Number A149**
Systematic Evidence Mapping of Per- and Polyfluoroalkyl Substances (PFAS): A Large Language Model-Based Toxicokinetic Database. Q. Chen^{1,2}, P. Wu^{1,2}, V. N. Kaminen^{1,2}, Z. Zhang^{1,2}, and Z. Lin^{1,2}. ¹Department of Environmental and Global Health, College of Public Health and Health Professions, University of Florida, Gainesville, FL; and ²Center for Environmental and Human Toxicology, University of Florida, Gainesville, FL.
- #4397 **Poster Board Number A150**
Leveraging continuous, real-time air quality monitoring in agricultural settings to improve health and economic outcomes. D. L. Palliyaguru^{1,2,3}, V. Kulasena Fernando², and M. R. Wijesinghe². ¹HealthSurveil LC, San Antonio, TX; ²University of Colombo, Colombo, Sri Lanka; and ³Fulbright US Scholar Program and the United States Fulbright Commission, Colombo, Sri Lanka.

- #4398 **Poster Board Number A151**
Chemical Effects in Biological Systems (CEBS): A Curated Toxicology Database with Extensive Data, Integrated Datasets, and User-friendly Interface. C. Baril¹, Y. Liu², H. Cunney², G. Roberts², *M. Stout*², and C. Schmitt². ¹ASRC Federal Data Solutions, Beltsville, MD; and ²NIEHS, Research Triangle Park, NC.
- #4399 **Poster Board Number A152**
Exploring ToxCast: Enhancing Public Access to Targeted Bioactivity Screening Data. *M. Feshuk*¹, J. Abedini¹, *K. Carstens*¹, *P. Kruse*², and *K. Paul Friedman*³. ¹US EPA/OCSP, Research Triangle Park, NC; ²NIEHS/DTT, Research Triangle Park, NC; and ³former US EPA/ORD, Research Triangle Park, NC.
- #4400 **Poster Board Number A153**
Leveraging Machine Learning for Efficient Prediction of Acute Inhalation Toxicity of Environmental Chemicals. Y. Chen¹, *K. Salazar*¹, *K. Mansouri*², and *N. Kleinstreuer*³. ¹U.S. EPA, Washington DC, DC; ²NTP Interagency Center for the Evaluation of Alternative Toxicological Methods, National Institute of Environmental Health Sciences, Durham, NC; and ³Division of Program Coordination, Planning, and Strategic Initiatives, National Institutes of Health, Durham, NC.
- #4401 **Poster Board Number A154**
ChatAOP: AI-Driven Multi-omics Framework for Revealing New Modality Tox Mechanisms in Adverse Outcome Pathways. *D. Hahm*, and *Z. Liu*. Boehringer Ingelheim, Ridgefield, CT.
- #4402 **Poster Board Number A155**
Linking Adverse Outcome Pathways to Sustainability: Impact Outcome Pathways (IOPs) for SSbD. A. Schaffert, A. Serra, M. Torres Maia, and D. Greco. Tampere University, Tampere, Finland. Sponsor: *B. Meek*
- #4403 **Poster Board Number A156**
Evaluation of a comprehensive and flexible behavior analysis tool for neurotoxicity testing in larval zebrafish (NeuroBEAT). J. Raab, *S. Gutsfeld*, and *T. Tal*. Helmholtz Centre for Environmental Research - UFZ, Leipzig, Germany.
- #4404 **Poster Board Number A157**
Multi omics integration of transcriptional and metabolic responses to DILI compounds across human liver models. T. Danilyuk¹, E. J. Burgers¹, F. M. Zickgraf², P. Ternes³, N. Rocker³, P. J. Bouwman¹, J. B. Beltman¹, G. Callegaro¹, and *B. van de Water*¹. ¹Leiden University, Leiden, Netherlands; ²BASF SE, Ludwigshafen, Germany; and ³BASF Metabolome Solutions GmbH, Berlin, Germany.

PS **Poster Session: Molecular Toxicology**

Chair(s): Giorgiana-Madalina Ursu, Brown University.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 9:15 AM–11:45 AM

Abstract #

- #4405 **Poster Board Number** **B160**
Genome-scale CRISPR Screening Identifies C18orf32 as a Novel Regulator of Lipid Metabolism Mediating PFOA-induced Liver Toxicity. C. Kim, M. Tagmount, W. Barbazuk, R. Bacher, Z. Zhu, and C. D. Vulpe. University of Florida, Gainesville, FL.
- #4406 **Poster Board Number** **B161**
Tire antiozonants 6PPD and its quinone derivative effects on *Saccharomyces cerevisiae*. E. Braun, M. Metcalf, and K. Kim. Missouri State University, Springfield, MO.
- #4407 **Poster Board Number** **B162**
The cytotoxic effect of Trichloroethylene (TCE) involves both the extrinsic and intrinsic apoptosis pathways via potential binding of TCE to Calmodulin and Fas receptor in human neuronal cells. J. Li¹, W. Zhu², and B. Li³. ¹Dept. of Chemistry, University of Rochester, Rochester, NY; ²Neuroscience Research Institute, SUNY College at Old Westbury, Old Westbury, NY; and ³Dept. of Oncology, Weill Cornell Medical College, New York, NY. Sponsor: B. Li, American Association for Cancer Research
- #4408 **Poster Board Number** **B163**
Concentration-dependent induction of proliferation and oxidative stress by phthalates (DEHP and MEHP) in RWPE-1 prostate epithelial cells. Z. A. Kasuske, J. E. Cañas-Carrell, and K. P. Singh. Texas Tech University, Department of Environmental Toxicology, Lubbock, TX.
- #4409 **Poster Board Number** **B164**
The Effects of Diisononyl Phthalate and its Primary Metabolite on Non-malignant Colonocytes. S. V. Dolphin, Z. S. Bomstein, K. F. Allred, and C. D. Allred. Univeristy of North Carolina Greensboro, Greensboro, NC.
- #4410 **Poster Board Number** **B165**
Deconjugation of Polychlorinated Biphenyl Sulfates to Hydroxylated PCBs by Anaerobically Cultured Mouse and Human Gut Microbiota. C. Rong¹, J. Lim², X. Li³, H. Lehmler³, A. J. Annalora¹, and J. Y. Cui¹. ¹Oregon State University, Corvallis, OR; ²Institute for Systems Biology, Seattle, WA; and ³University of Iowa, Iowa City, IA.
- #4411 **Poster Board Number** **B166**
Spatial Transcriptomic Mapping of Toxicity Differences Between Benzo[a]pyrene and an Alkylated Derivative. S. Stinson, M. L. Morshead, L. Truong, and R. L. Tanguay. Oregon State University, Corvallis, OR.
- #4412 **Poster Board Number** **B167**
Toxicity Profiling of Polycyclic Aromatic Hydrocarbon Mixtures in Primary Human Bronchial Epithelial Cells. R. Juarez Murguia, M. Allison, A. Biggerstaff, R. Valdez, J. M. Pennington, and S. C. Tilton. Oregon State University, Corvallis, OR.
- #4413 **Poster Board Number** **B168**
Sex-Specific Regulation of Hepatic Cytochrome P450 Enzymes by Arsenic Trioxide in Mice: Insights into Drug Metabolism and Hepatotoxicity. S. Elmahrouk, and A. El-Kadi. University of Alberta, Edmonton, AB, Canada.

- #4414 **Poster Board Number** B169
Single-Cell Multiomic Insights into Zinc Modulation of Cadmium and Arsenic Effects During Lung Alveolarization. A. R. Bly, B. Minasenko, D. Wang, F. Hassounah, C. Su, and X. Hu. Emory University, Atlanta, GA.
- #4415 **Poster Board Number** B170
Investigating mechanisms of chlorpromazine protection against cadmium-induced toxicity in cardiomyocytes. C. J. Kline¹, D. Brambila², H. Hammerlindl², L. Rao², J. S. Kim¹, S. Altschuler², L. Wu², and S. Q. Shen¹. ¹University of Iowa, Iowa City, IA; and ²University of California, San Francisco, San Francisco, CA.
- #4416 **Poster Board Number** B171
Novel Insights into Antimicrobial's Cetylpyridinium Chloride Mechanism of Mitochondrial Toxicity. N. E. Adelman, E. L. Ledue, S. K. Trafton, E. Biro, and J. A. Gosse. University of Maine, Orono, ME.
- #4417 **Poster Board Number** B172
The Pesticide Propargite Induces and Exacerbates Ferroptotic Toxicity: Implications for the Pathogenesis of Parkinson's Disease. M. Jakaria¹, S. R. Sammi², and J. Cannon¹. ¹School of Health Sciences & Purdue Institute for Integrative Neuroscience, Purdue University, West Lafayette, IN; and ²Department of Translational Neuroscience, Michigan State University, Grand Rapids, MI.
- #4418 **Poster Board Number** B173
Role of Advanced glycation end products and their receptors on myoblast senescence *in vitro* and regeneration retardation of aging muscles *in vivo*. S. Liu¹, D. Chan¹, J. Jhuang¹, F. Chang¹, M. Sheu², and K. Lan³. ¹National Taiwan University, Taipei, Taiwan; ²National Chung Hsing University, Taichung, Taiwan; and ³National Defense Medical University, Taipei, Taiwan.
- #4419 **Poster Board Number** B174
Employing a High-Throughput Screen to Identify Human Pregnane X Receptor Antagonists. C. Lynch, S. Sakamuru, J. Travers, T. Zhao, R. Huang, and M. Xia. NIH/NCATS, Rockville, MD.
- #4420 **Poster Board Number** B175
Development of Spatial Transcriptomics Methods for Integrating Molecular Changes with Pathologic Findings: Proof of Concept Studies with Kidney Toxicants in Rat and NHP. E. Hornung, D. Petraitis Quay, O. Mendes, T. Forest, K. Tanis, and R. Gonzalez. Merck, West Point, PA.
- #4422 **Poster Board Number** B177
Transcriptomic Characterization of Birth Defects-Associated Genes During Early Organogenesis. J. Gomes, L. Li, A. M. Gutierrez, T. Sengupta, V. Chauhan, and J. F. Robinson. UCSF, San Francisco, CA.
- #4423 **Poster Board Number** B178
Placental Nrf2-regulated gene expression in a rat model of pre- and gestational fluoride exposure. A. Dominguez Reyes^{1,2}, J. Guerrero Arroyo¹, A. Larrañaga Parrado¹, Á. Barrera Hernández¹, L. M. Del Razo¹, E. J. Córdova Alarcón³, and M. I. Jiménez Córdova^{1,4}. ¹Cinvestav, Mexico, Mexico; ²Instituto Politécnico Nacional, Mexico, Mexico; ³Instituto Nacional de Medicina Genómica, Mexico, Mexico; and ⁴Programa de Investigadoras e Investigadores por México, Secretaria de Ciencia, humanidades, Tecnología e Innovación (Secihti), Mexico, Mexico.
- #4424 **Poster Board Number** B179
Impact of RNA Binding Proteins on Nrf2 De Novo Synthesis During Oxidative Stress. D. Wurm, H. Qu, Y. Lu, L. An, L. An, and Q. M. Chen. University of Arizona, Tucson, AZ.

- #4425 **Poster Board Number B180**
CYP2E1 Influences GLO1 Abundance and Methylglyoxal Detoxification Across Multiple Organs. R. M. Roberts, A. Tomasevich, K. Stayer, H. Gonzalez, and J. Hartman. Medical University of South Carolina, Charleston, SC.
- #4426 **Poster Board Number B181**
Sulfinyl Aziridines as Stereoselective Covalent Destabilizing Degradors of the Oncogenic Transcription Factor MYC. H. T. Rosen, K. Li, T. J. Maimone, and D. K. Nomura. University of California, Berkeley, Berkeley, CA.
- #4427 **Poster Board Number B182**
From Start to Finish: Casein Kinase 2 Negatively Regulates G_{as}-GPCR Signaling in Multiple Ways. J. Lee, M. Khurram, R. Sherpa, and S. S. An. Rutgers University, New Brunswick, NJ.
- #4428 **Poster Board Number B183**
Mechanistic Insights into Species-Specific ABC Transporter Regulation by Acetaminophen in the Intestinal Epithelium. C. I. Ghanem^{1,2}, A. P. Laddha³, J. B. Allegro¹, Z. Bazzi¹, M. De Sousa¹, and J. E. Manautou³. ¹Instituto de Investigaciones Farmacológicas (ININFA-UBA-CONICET), Buenos Aires, Argentina; ²and Cátedra de Fisiopatología, Facultad de Farmacia y Bioquímica (FFYB). Universidad de Buenos Aires (UBA), Buenos Aires, Argentina; and ³Department of Pharmaceutical Sciences, University of Connecticut, Storrs, CT.
- #4429 **Poster Board Number B184**
Role of GDF15 in asparaginase-induced food aversion and liver steatosis. D. Bermeo Grajales, E. M. Lopez, M. Gomez Jenkins, M. Ibrahim, C. T. Bhavsar, B. A. Zalma, E. White, and T. G. Anthony. Rutgers University, New Brunswick, NJ.
- #4430 **Poster Board Number B185**
Apoptotic Bodies Derived from HIV- and Alcohol-Exposed Hepatocytes Amplify Inflammation and Programmed Cell Death Pathways in Liver Parenchymal Cells. L. A. Adepoju, A. Pathania, G. Bybee, and N. Osa. University of Nebraska Medical Center, Omaha, NE.
- #4431 **Poster Board Number B186**
Quantum Dots Interaction with Cytoskeletal Proteins via Experimental Observations and Computational Predictions. E. Billue¹, A. Chand¹, N. Le², T. Astuhuaman Davila¹, R. Sakdja¹, and K. Kim¹. ¹Missouri State University, Springfield, MO; and ²Johns Hopkins University, Large City, MD.
- #4432 **Poster Board Number B187**
SERPINA3 Upregulation Marks Fine Particulate Matter-Induced Impairment of Osteogenic Differentiation. M. Vera-Colón, and N. Sparks. University of California, Irvine, Irvine, CA.
- #4433 **Poster Board Number B188**
Tracing the Evolutionary Origins of the Aryl Hydrocarbon Receptor Ligand Specificity. T. Steiniche¹, S. I. Karchner¹, J. V. Goldstone¹, C. Mandl¹, J. W. Thornton², and M. E. Hahn¹. ¹Woods Hole Oceanographic Institution, Woods Hole, MA; and ²University of Chicago, Chicago, IL.
- #4434 **Poster Board Number B189**
Early Life Microbiota Shape Metabolic Programming and Mitochondrial Resilience to Toxicants. E. Green, and N. Jayasundara. Duke University, Durham, NC.
- #4435 **Poster Board Number B190**
Aip Mutation Reduces Sensitivity to Ahr Ligands in a Context-Dependent Manner. D. M. Perone¹, J. K. La Du¹, S. I. Karchner², N. Aluru², S. Stinson¹, L. Truong¹, M. E. Hahn², and R. L. Tanguay¹. ¹Oregon State University, Corvallis, OR; and ²Woods Hole Oceanographic Institution, Woods Hole, MA.

- #4436 **Poster Board Number** B191
Role of aryl hydrocarbon receptor (AhR) ligands in the regulation of microRNAs in the mouse thymus. *N. P. Singh, T. Jannusch¹, M. Nagarkatti, and P. Nagarkatti.* University of South Carolina School of Medicine, Columbia, SC.
- #4437 **Poster Board Number** B192
Role of AHR-interacting protein (AIP) variants in controlling sensitivity and resistance to dioxin-like compounds. *S. I. Karchner¹, J. V. Goldstone¹, B. W. Clark², D. Nacci³, N. M. Reid⁴, A. Whitehead⁵, and M. E. Hahn¹.* ¹Woods Hole Oceanographic Institution, Woods Hole, MA; ²United States Environmental Protection Agency, Narragansett, RI; ³United States Environmental Protection Agency (retired), Narragansett, RI; ⁴University of Connecticut, Storrs, CT; and ⁵University of California, Davis, CA.

Wednesday, March 25, 9:15 AM to 11:45 AM, Exhibit Hall B, Convention Center

PS Poster Session: Ecotoxicology

Chair(s): Idoia Meaza Isusi, University of Louisville.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 9:15 AM–11:45 AM

Abstract #

- #4438 **Poster Board Number** C200
Investigating Mercury Transformation Potential by *Chlamydomonas reinhardtii* Algae. *W. R. Davis¹, L. Stevenson², A. Minet², P. Ku², and T. Mathews².* ¹North Carolina Agricultural and Technical State University, Greensboro, NC; and ²Oak Ridge National Laboratory, Oak Ridge, TN.
- #4439 **Poster Board Number** C201
Ozone-Mediated Oxidation of 4-Alkoxy-2(3)-nitroacetanilides: Rapid Mineralization and Implications for Wastewater Treatment. *J. E. Hines III, O. A. Agu, C. J. Deere, S. V. Bai, and R. M. Uppu.* Southern University and A&M College, Baton Rouge, LA.
- #4440 **Poster Board Number** C202
Overlooked role of sulfur in the production of microcystin. *A. Biswas, M. Minghetti, J. Belden, and P. Jeyasingh.* Oklahoma State University, Stillwater, OK.
- #4442 **Poster Board Number** C204
Germination to Pollination: Effects of Heavy Metals on *Phacelia parryi*. *C. Baker, and W. Recart González.* University of San Diego, San Diego, CA.
- #4443 **Poster Board Number** C205
Unique Toxic Mechanism of *Chlamydomonas reinhardtii* Exposed to Gold Nanoparticles with Different Shapes. *C. Wang, and K. Du.* University of California, Riverside, Riverside, CA. Sponsor: Y. Wei
- #4444 **Poster Board Number** C206
Embryonic exposure to Bisphenol F disrupts early neurodevelopment and induces anxiety-like behaviour in zebrafish (*Danio rerio*). *A. Hasan, A. York, S. Niyogi, and D. P. Chivers.* University of Saskatchewan, Saskatoon, SK, Canada.
- #4445 **Poster Board Number** C207
Mixture Interactions of Haloacetonitriles Disinfection By-Products in Zebrafish. *Y. Chien, J. Hsu, and C. Wu.* National Yang Ming Chiao Tung University, Hsinchu City, Taiwan.

- #4446 **Poster Board Number** C208
A Proteomic Study Assessing the Impact of Brevetoxin on Zebrafish (*Danio Rerio*) Embryo Development. J. M. Williams¹, K. Rein¹, T. A. Cabrera², and J. Berry². ¹Florida Gulf Coast University, Fort Myers, FL; and ²Florida International University, Miami, FL. Sponsor: J. Luyendyk
- #4447 **Poster Board Number** C209
Drivers of Contaminant Load in Elasmobranchs: Coastal Development and Feeding Ecology. M. A. Walker¹, P. C. Powell¹, G. D. Aniolek¹, Z. J. Padgett¹, K. Artosky¹, E. J. Zheltov¹, E. Wittman¹, J. M. Schulte², E. Personius², J. Donaldson³, D. Feinstein⁴, S. L. Kim⁴, J. H. Bisesi³, J. A. Bowden³, M. M. Holst⁵, T. K. Chapple⁶, B. S. Frazier⁷, and K. D. Rock¹. ¹Clemson University, Clemson, SC; ²Coastal Oregon Marine Science Experiment Station, Oregon State University, Newport, OR; ³Center for Environmental and Human Toxicology, University of Florida, Gainesville, FL; ⁴Dept. of Life and Environmental Sciences, University of California - Merced, Merced, CA; ⁵Dept. of Anatomy, Physiology, and Cell Biology, University of California – Davis, Davis, CA; ⁶Fisheries, Wildlife, and Conservation Sciences, Oregon State University, Corvallis, OR; and ⁷South Carolina Dept. of Natural Resources, Marine Resources Research Institute, Charleston, SC.
- #4448 **Poster Board Number** C210
Multiorgan integrative toxicity of emerging contaminants thallium and gallium in zebrafish. Y. Chang¹, Y. Chang¹, J. Chen¹, T. Jao², S. Liu¹, and C. Chiang^{1,3}. ¹Graduate Institute of Toxicology, College of Medicine, National Taiwan University, Taipei, Taiwan; ²Global Innovation Joint-Degree Program International Joint Degree Master's Program in Agro-Biomedical Science in Food and Health, National Taiwan University, Taipei, Taiwan; and ³Department of Integrated Diagnostics & Therapeutics, National Taiwan University Hospital, Taipei, Taiwan.
- #4449 **Poster Board Number** C211
Skin irritation caused by drilling fluid. U. A. Satybaldiyeva, A. A. Zhurgenova, and A. A. Mamyrbayev. West Kazakhstan Medical University named after Marat Ospanov, Aqtobe, Kazakhstan.
- #4450 **Poster Board Number** C212
Metabolic activities in Rainbow trout (*Oncorhynchus mykiss*) S9 fractions from liver and extrahepatic organs as an alternative *in vitro* ecotoxicity assessment approach. A. Ullrich, M. Reu, M. Thiede, A. Alkufairi, A. Sattler, J. Schuldt, and D. Runge. PRIMACYT GmbH, Schwerin, Germany.
- #4451 **Poster Board Number** C213
Effect of tire wear particle 6PPD and 6PPDq on HepG2 liver cancer cell metabolism. M. Singleton, E. Braun, and K. Kim. Missouri State University, Springfield, MO.
- #4452 **Poster Board Number** C214
Assessing PFAS Contamination and PFOS Biodegradation Potential in South Carolina Estuarine Sediments. Z. J. Padgett¹, P. C. Powell¹, A. C. Elkins¹, M. C. Boland¹, M. Walker¹, M. Afghah¹, R. Dotson¹, M. Heselton¹, D. Patabandige¹, B. C. Campbell¹, E. Friend², N. Shea², A. Tweel², S. D. Hamilton-Brehm³, and K. Rock¹. ¹Clemson University, Clemson, SC; ²South Carolina Department of Natural Resources, Charleston, SC; and ³Southern Illinois University, Carbondale, IL.
- #4453 **Poster Board Number** C215
Mechanism of Liver Injury Induced by Cr⁶⁺ in Zebrafish and Protective Effect of Organic Selenium. Y. Xu¹, X. Bo¹, Y. Zhang¹, X. Li¹, H. Chen², L. Xie², Y. Yang¹, J. Yu¹, and W. Dong¹. ¹Inner Mongolia Minzu University, Tongliao City, China; and ²SCNU Environmental Research Institute, Guangdong Provincial Key Laboratory of Chemical Pollution and Environmental Safety & MOE Key Laboratory of Theoretical Chemistry of Environment, South China Normal University, Guangzhou City, China.

- #4454 **Poster Board Number C216**
Ecotoxicological Assessment of Effluents from a Combined Anaerobic-Anoxic-Aerobic Wastewater Treatment System Reveals Unexpected Oxidative Stress in *Chironomus sancticaroli*. M. N. Araujo^{1,2}, D. F. Gomes², T. V. Soeira², H. P. Brito³, J. N. Swihart¹, W. A. Tamagno¹, M. Zaiat², and J. H. Shannahan¹. ¹Purdue University, Lafayette, IN; ²University of São Paulo, São Carlos, Brazil; and ³Federal University of São Carlos, São Carlos, Brazil.
- #4455 **Poster Board Number C217**
Hair analysis as a non-invasive method for assessing the exposure of mammals with different dietary habits to poly- and perfluoroalkyl substances. C. Merola¹, A. Menozzi¹, S. Gonkowski², A. Petrini³, S. V. Defourny³, S. Mikołajczyk⁴, and K. Makowska². ¹University of Teramo, Teramo, Italy; ²University of Warmia and Mazury in Olsztyn, Olsztyn, Poland; ³Istituto Zooprofilattico Sperimentale dell'Abruzzo e Molise "G. Caporale", Teramo, Italy; and ⁴National Veterinary Research Institute, Puławy, Poland.
- #4456 **Poster Board Number C218**
Developing a Protocol for Measuring Environmentally Sourced Microplastics through Flow Cytometry. H. Brown, A. Holian, and R. L. Kendall. University of Montana, Missoula, MT.
- #4457 **Poster Board Number C219**
Crested porcupines (*Hystrix cristata*) as sentinels of environmental metal contamination in Central Italy. A. Menozzi^{1,2}, S. V. Defourny², C. Merola¹, M. Bellocci², V. Melai², G. Scortichini², R. Salini², S. Tora², S. Salucci², and A. Petrini². ¹University of Teramo, Teramo, Italy; and ²Istituto Zooprofilattico Sperimentale dell'Abruzzo e Molise "G. Caporale", Teramo, Italy.
- #4458 **Poster Board Number C220**
Ecological Risk Assessment and CLP Classification of Beryllium and Beryllium Compounds in Aquatic Environments. A. Massarsky¹, E. de Gandiaga², J. Jackson³, M. L. Kreider⁴, and G. H. Heldt⁵. ¹Stantec, Irvine, CA; ²SciTox, Huntington Beach, CA; ³Stantec, Burnaby, BC, Canada; ⁴Stantec, Pittsburgh, PA; and ⁵Materion Corporation, Elmore, OH.
- #4459 **Poster Board Number C221**
Microplastics in Motion: Comparative Uptake and Immune Responses in Coastal Shark Species. G. D. Aniolek, and K. Rock. Clemson University, Clemson, SC.
- #4460 **Poster Board Number C222**
Neurotoxicity of β -N-methylamino-L-alanine (BMAA) in larval zebrafish: behavioural and transcriptomic insights. J. Ritu, M. Uddin, M. C. Ferrari, and D. P. Chivers. University of Saskatchewan, Saskatoon, SK, Canada. Sponsor: J. Luyendyk
- #4461 **Poster Board Number C223**
Parent vs. Metabolite: Transcriptional Responses to the Phthalate DEHP and its Alternative Plasticizers in *Danio rerio* embryo-larvae. B. M. Smith, and J. Crago. Texas Tech University, Lubbock, TX.
- #4462 **Poster Board Number C224**
Estrogenic activity of PFAS with variable length and structure using human cell bioassays and rainbow trout (*Oncorhynchus mykiss*) liver slice assays. C. G. Baettig¹, M. Nash¹, D. Lew¹, P. J. Ankley¹, D. L. Villeneuve², and M. Tapper². ¹ORISE at US EPA, Duluth, MN; and ²US EPA, Duluth, MN.
- #4463 **Poster Board Number C225**
Xenometabolome Profiling of Structurally Diverse PFAS in Rainbow Trout (*Oncorhynchus mykiss*) Liver Slices. P. Ankley¹, C. Baettig¹, D. Lew¹, M. Tapper², and D. Villeneuve². ¹ORISE U.S. EPA, Duluth, MN; and ²U.S. EPA, Duluth, MN.
- #4464 **Poster Board Number C226**
Evaluation of Aquatic Toxicity of Phototransformed Hexanitrohexaazaisowurtzitane. N. Hall, J. Morrill, J. Irwin, A. East, and L. Schneider. Defense Centers for Public Health, Gunpowder, MD.

#4465 **Poster Board Number** C227
**The drivers of chemosensitization: naturally-occurring marine microbial organohalogen
 are substrates of the drug transporter ABCB1.** E. R. Tjeerdema, R. Metry, S. Adak,
 M. Schorn, B. Moore, and A. Hamdoun. Scripps Institution of Oceanography, La Jolla,
 CA. Sponsor: E. Tjeerdema, Society of Environmental Toxicology and Chemistry

Wednesday, March 25, 1:45 PM to 4:15 PM, Exhibit Hall B, Convention Center

PS Poster Session: Environmental Toxicology in a Changing Climate

Chair(s): Brandon Pearson, Oregon State University.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 1:45 PM–4:15 PM

Abstract #

- #4466 **Poster Board Number** C229
**Integrated Spatial Transcriptomic, Behavioral, and Immunophenotypic Analyses Reveal
 Heat Wave-Driven Neurocognitive and Neuroinflammatory Vulnerabilities in Aging.**
 S. Roy¹, A. Trivedi¹, S. Sarkar¹, M. More¹, R. Kumar¹, and S. Chatterjee^{1,2}. ¹University of California,
 Irvine, Irvine, CA; and ²Department of Veterans Affairs Long Beach (VA Medical Center), Long
 Beach, CA.
- #4467 **Poster Board Number** C230
**Air pollution and heat co-exposure induced cardiac dysfunction: Role of Nod-like
 Receptor X-1.** C. Monge¹, Y. Li¹, A. Razazan¹, T. Goldsmith², T. Nurkiewicz², M. Velayutham³,
 J. Hollander¹, and S. Hussain¹. ¹Department of Physiology, Pharmacology and Toxicology, School
 of Medicine, West Virginia University, Morgantown, WV; ²Centre for Inhalation Toxicology (ITOX),
 School of Medicine, West Virginia University, Morgantown, WV; and ³Biochemistry and Molecular
 Medicine, School of Medicine, West Virginia University, Morgantown, WV.
- #4468 **Poster Board Number** C231
Effect of Heat Stress on Vascular Functions. H. Husain, S. McFall, A. Hussain, M. V. Malovichko,
 I. Zelko, J. Hellmann, D. J. Conklin, and S. Srivastava. University of Louisville, Louisville, KY.
- #4469 **Poster Board Number** C232
**Heat Stress and Perfluorooctanoic Acid impacts Endometrial Function in post-
 pubertal gilts: Implications for Reproductive Toxicology.** O. Z. Adeyanju, C. Antwi-Boasiako,
 E. M. González-Alvarez, B. M. Buol, L. H. Baumgard, and A. F. Keating. Iowa State University, Ames,
 IA.
- #4470 **Poster Board Number** C233
**Perfluorooctanoic acid exposure differentially affects the follicular fluid proteome in
 post-pubertal gilts during thermal neutral and heat stress conditions.** C. Antwi-Boasiako,
 E. Gonzalez Alvarez, B. M. Buol, L. H. Baumgard, and A. F. Keating. Iowa State University, Ames, IA.
- #4471 **Poster Board Number** C234
**Fresh water salinization exposure heightens risk of poor Vibriosis outcomes and
 systemic inflammation.** S. Sarkar¹, S. Chatterjee², S. Roy¹, A. Trivedi¹, M. P. More¹, R. K. Varma¹,
 and S. C. Bondy¹. ¹University of California Irvine, Irvine, CA; and ²University High School, Irvine, CA.

#4472	Poster Board Number C235 Metabolic Stress Potentiates Renal Maladaptive Repair Following <i>Vibrio vulnificus</i> Sepsis: Implications for a Warming Climate. <i>M. P. More, S. Roy, A. Trivedi, S. Sarkar, R. Kumar, and S. Chatterjee.</i> Joe C. Wen School of Population and Public Health, University of California - Irvine, Irvine, CA.
#4473	Poster Board Number C236 Enhancing Disaster Preparedness Through Inclusive Science Communication and Early Warning Systems. <i>O. Dada, and A. Ogunyiola.</i> Murray State University, Murray, KY.

Wednesday, March 25, 9:15 AM to 11:45 AM, Exhibit Hall B, Convention Center

PS Poster Session: Regulation/Policy

Chair(s): Angela Hofstra, Syngenta Canada Inc.

Displayed: 9:00 AM–4:30 PM | Author Attended: 9:15 AM–11:45 AM

Abstract

#4474	Poster Board Number C237 ECHA Writes Back: The Reasons for Rejection of Read-Across in Compliance Check Decisions by the European Chemicals Agency. <i>H. M. Roe¹, N. Ball², W. A. Chiu¹, and I. Rusyn¹.</i> ¹ Texas A&M University Interdisciplinary Faculty of Toxicology, College Station, TX; and ² The Dow Chemical Company, Horgen, Switzerland.
#4475	Poster Board Number C238 New EU Endocrine Disruptor Hazard Classes: Classification Criteria, Testing Requirements, and Industry Implications. <i>W. Mune¹, and R. Gioia².</i> ¹ Yordas Group, Forcheim, Germany; and ² Yordas Group, Lancaster, United Kingdom. Sponsor: W. MUNE, EUROTOX
#4476	Poster Board Number C239 Enhancing Chemical Hazard Assessment in California's Safer Consumer Products Program: Translating Toxicological Data into Hazard Scores and Addressing Challenges with Alternatives Analysis. <i>A. Lim, J. Jackson, N. Pham, and X. Zhou.</i> California Environmental Protection Agency, Sacramento, CA.
#4477	Poster Board Number C240 California Cannabis Consumption Survey - a Foundation for Health-Based Pesticide Limits for Edible Cannabis. <i>A. A. Kalashnikova¹, S. Koshlukova¹, Q. Dong¹, B. Darsie¹, J. C. Tomassilli², S. DuTeaux¹, and J. Teerlink¹.</i> ¹ Department of Pesticide Regulation, Sacramento, CA; and ² California State University, Sacramento, CA.
#4478	Poster Board Number C241 Developing Human Health Reference Levels for Pesticide Residues in Groundwater. <i>C. Zhang, D. Bonnar, B. Brown, Q. Dong, M. Geier, A. Kalashnikova, S. Tiscione, P. Lohstroh, S. Koshlukova, and S. DuTeaux.</i> CalEPA, DPR, HHA, Sacramento, CA.
#4479	Poster Board Number C242 Setting Maximum Levels for PFAS in Farm Products. <i>A. P. Bline, A. E. Smith, and T. L. Simones.</i> Maine Center for Disease Control and Prevention, Augusta, ME.
#4480	Poster Board Number C243 Tracking the Persistence of Replaceable Animal Tests: The Replace Animal Tests (RAT) List as a Tool for Advancing Non-Animal Toxicology. <i>L. Alvarez.</i> Cruelty Free International, London, United Kingdom.

#4481	Poster Board Number C244 An Evaluation of the Science and Recent Regulatory Initiatives Regarding Formaldehyde. J. Siracusa ¹ , Q. Perry ¹ , M. Stevens ² , P. Underwood ³ , and D. Paustenbach ¹ . ¹ TRC Companies, Jackson, WY; ² TRC Companies, Denver, CO; and ³ TRC Companies, Manassas, VA.
#4482	Poster Board Number C245 Impact of single-use plastics at intensive care units: Costs, toxicity, and environmental sustainability. J. Franco-Mesa, B. J. Arroyo-Salgado, and M. Godin-Cuadrado. Biomedical, Toxicological and Environmental Research Group BIOTOXAM – SEMILLERO SEMIDET, School of Medicine, Universidad de Cartagena, Cartagena, Colombia.
#4483	Poster Board Number C246 EPA's Implementation of the Endocrine Disruptor Screening Program (EDSP) Near-Term Strategies. R. Louden, G. Akerman, M. Perron, C. Aubee, and S. Lynn. United States Environmental Protection Agency, Office of Pesticide Programs, Washington, DC. Sponsor: C. Tan

Wednesday, March 25, 1:45 PM to 4:15 PM, Exhibit Hall B, Convention Center

PS Poster Session: Bioinformatics

Chair(s): Kai Wang, Indiana University Bloomington.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 1:45 PM–4:15 PM

Abstract #

#4484	Poster Board Number C251 Network toxicology applied to titanium dioxide nanoparticles: implications for human health. D. Gomez-Caballero, and J. Olivero-Verbel. University of Cartagena, Cartagena, Bolivar, Colombia.
#4485	Poster Board Number C252 Cross-Platform Translation of Toxicogenomic Profiles Using a Transformer Model to Enable Data Harmonization. G. Cong ¹ , S. Auerbach ² , J. Erickson ² , and P. Combs ² . ¹ Oak Ridge National Laboratory, Oak Ridge, TN; and ² NIEHS, RTP, NC.
#4486	Poster Board Number C253 Mapping the landscape of pharmacological target interactions in RPTEC/TERT1 cells using transcriptomics and cell painting. H. W. van Kessel ¹ , M. Wedler ² , P. Helmke ³ , E. Liepiņš ⁴ , G. F. Ecker ³ , S. Liu ² , M. J. Moné ¹ , G. Callegaro ¹ , and B. van de Water ¹ . ¹ Leiden University, Leiden, Netherlands; ² German Federal Institute for Risk Assessment, Berlin, Germany; ³ University of Vienna, Vienna, Austria; and ⁴ Latvian Institute of Organic Synthesis, Riga, Latvia.
#4487	Poster Board Number C254 Single cell RNA-sequencing reveals divergent genes in cynomolgus macaque versus human in CD3-CD28 mediated immune response. L. K. Mack, Z. Huang, K. Hoyt, L. Dzielak, B. Flynn, A. R. Masters, C. Wood, E. L. Raymond, and K. Neier. Boehringer Ingelheim Pharmaceuticals, Inc., Ridgefield, CT.
#4488	Poster Board Number C255 Evaluation of Anti-Arthritic Effects of Acupen a Polyherbal Formulation Using Adjuvant-Induced Arthritis Model in Wistar Rats. S. L. Jadhav, G. V. Mahajan, K. N. Shah, and M. V. Patel. Jai Research Foundation, Vapi, India.

- #4489 **Poster Board Number** C256
Differential Gene Expression in 3D-printer exposed BEAS-2B Human Bronchial Cells Varies with Filament Material and Exposure Time. D. T. Pruss, M. Shojiv, T. Jefferis, J. Beard, C. Worth, J. H. Taube, M. Benton, and C. M. Sayes. Baylor University, Waco, TX.
- #4490 **Poster Board Number** C257
A similarity-based transcriptomics analysis workflow enables rapid investigation of potential mechanisms of compound toxicity during nonclinical development. J. D. Rogers¹, A. Hu², M. Kesapragada², S. Seal¹, R. Wang¹, S. Denecke¹, K. Q. Tanis¹, R. J. Gonzalez¹, and F. Shah¹.
¹Merck & Co. Inc., West Point, PA; and ²Merck & Co. Inc., South San Francisco, CA.
- #4491 **Poster Board Number** C258
Visualizing Structural Relationships with Clustering in Mass Spectrometry Datasets. A. N. Dickey¹, F. A. Wright¹, and E. S. Baker². ¹North Carolina State University, Raleigh, NC; and ²University of North Carolina at Chapel Hill, Chapel Hill, NC.
- #4492 **Poster Board Number** C259
Using methylation profiling to improve bioinformatics pipelines for the identification of dioxin response elements. J. J. Park¹, L. B. Wilson², P. Thunga¹, L. Truong², A. Dickey¹, D. M. Reif¹, R. L. Tanguay², and F. Wright¹. ¹North Carolina State University, Raleigh, NC; and ²Oregon State University, Corvallis, OR.
- #4493 **Poster Board Number** C260
Comparative Toxicogenomics Database: A data integration and visualization resource to inform the exposome and disease etiologies. C. Mattingly, A. P. Davis, T. C. Wieggers, J. A. Wieggers, D. Sciaky, F. Barkalow, B. H. Wyatt, R. McMorran, and S. Abrar. North Carolina State University, Raleigh, NC.
- #4494 **Poster Board Number** C261
NeTan: A Network-based Tool for Multi-Omics Integration across Cohort and Molecular levels. B. Minasenko, and X. Hu. Emory University, Atlanta, GA.
- #4495 **Poster Board Number** C262
In Vitro Profiling of Cosmetic Ingredients within the Tox21 10K Compound Library for Bioactivity and Potential Toxicity. L. Kruger¹, D. K. Ngan¹, T. Xu¹, M. Xia¹, S. S. Ferguson², D. M. Reif², and R. Huang¹. ¹Division of Preclinical Innovation (DPI), National Center for Advancing Translational Sciences (NCATS), National Institutes of Health (NIH), Rockville, MD; and ²Division of Translational Toxicology, National Institute of Environmental Health Sciences (NIEHS), National Institutes of Health (NIH), Research Triangle Park, NC.

Wednesday, March 25, 9:15 AM to 11:45 AM, Exhibit Hall B, Convention Center

PS Poster Session: PFAS II

Chair(s): Allison Killius, ToxStrategies LLC; and Kelly Salinas, SRC Inc.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 9:15 AM–11:45 AM

Abstract #

- #4496 **Poster Board Number** D264
Evaluating Potential Hepatotoxic and Metabolic Disruption by Emerging HFPO Homologues in Adult Female Mice. D. S. Guzman, M. L. Goodson, A. K. Ehrlich, and M. A. La Merrill. University of California, Davis, Davis, CA.

- #4497 **Poster Board Number D265**
Innovative Co-Culture Approach to Investigate Cellular Responses to Fluorotelomer Alcohol Exposure. *L. Rios-Colon¹, M. Bailey¹, S. Khan¹, J. Shipman², V. Sivaraman², and E. Sozzi¹.*
¹RTI International, Durham, NC; and ²North Carolina Central University, Durham, NC.
- #4498 **Poster Board Number D266**
Cell type-specific transcriptomic effects of PFAS in human cortical organoids. *G. Gomez¹, T. Khaled¹, J. Iam¹, H. Hipps¹, Z. Liew², A. Muotri¹, and L. Iakoucheva¹.* ¹University of California San Diego, San Diego, CA; and ²Yale School of Public Health, New Haven, CT. Sponsor: *A. Bowman*
- #4499 **Poster Board Number D267**
Mechanistic Toxicity Profiling of Legacy and Emerging PFAS Using New Approach Methodologies Integrating Target-Based and Translational Models. *J. Hsu¹, L. Fan¹, S. Lin¹, C. Teng¹, B. Huang¹, L. Galdieri², A. J. King², and C. Lee¹.* ¹Eurofins Discovery, Taipei, Taiwan; and ²Eurofins Discovery, St. Charles, MO. Sponsor: *Y. Zhao*
- #4500 **Poster Board Number D268**
Role of the gut microbiota in PFAS-induced changes to hepatic toxicity and cholesterol metabolism. *K. Roth¹, A. Burrows², X. Ye², J. M. Brown², and M. Petriello¹.* ¹Wayne State University, Detroit, MI; and ²Cleveland Clinic, Cleveland, OH.
- #4501 **Poster Board Number D269**
PPARα-Mediated Species-Specific Hepatic Responses to PFOS Exposure in Humanized and Knockout Mouse Models of Alcohol-Associated Liver Disease. *F. A. Ekuban¹, P. M. Ames¹, A. Ekuban¹, O. E. Bolatimi¹, A. Centers¹, Y. Hua¹, J. Luo¹, J. H. Hardesty¹, T. C. Gripshover¹, W. H. Watson¹, B. Wahlang¹, D. Bello², J. J. Schlezinger³, C. J. McClain¹, and M. C. Cave¹.* ¹University of Louisville, Louisville, KY; ²University of Massachusetts Lowell, Lowell, MA; and ³Boston University, Boston, MA.
- #4502 **Poster Board Number D270**
Photodynamic Priming (PDP) Mitigates Chemoresistance and Mitochondrial Enhancements in Ovarian Cancer Cells with a History of Chronic PFAS Exposure. *B. P. Rickard¹, L. A. Sapienza-Lundie², M. M. Dillon¹, I. Rizvi², and S. E. Fenton¹.* ¹North Carolina State University, Raleigh, NC; and ²University of North Carolina at Chapel Hill, Chapel Hill, NC.
- #4503 **Poster Board Number D271**
CYP2E1 Dependent Effects of PFOS in Mouse Liver and HepaRG Models. *K. R. Driggers¹, B. R. Deaton¹, F. Ekuban², M. Cave², and J. H. Hartman¹.* ¹Medical University of South Carolina College of Medicine, Charleston, SC; and ²University of Louisville, Louisville, KY.
- #4504 **Poster Board Number D272**
Impact of Albuminuria on PFAS Kinetics using Physiologically Based Toxicokinetic (PBTK) Modeling. *J. Bunis¹, H. Sharkey², A. Slitt¹, J. A. Goodrich², J. W. Nelson², and F. C. Fischer¹.* ¹University of Rhode Island, Kingston, RI; and ²University of Southern California, Los Angeles, CA.
- #4505 **Poster Board Number D273**
Presence of Legacy and Emerging PFAS in Human Livers Specimens in the United States from 2000-2024. *J. Agudelo Areiza¹, J. Becanova², S. Vojta², J. Ganglbauer², U. Apte³, L. Brunetti⁴, S. Kumer³, F. Haque⁵, E. Kim⁵, E. M. Sunderland⁵, R. Lohmann², F. C. Fischer¹, and A. L. Slitt¹.*
¹University of Rhode Island, Kingston, RI; ²University of Rhode Island, Narragansett, RI; ³University of Kansas Medical Center, Kansas City, KS; ⁴Rutgers University, Piscataway, NJ; and ⁵Harvard University, Boston, MA.
- #4506 **Poster Board Number D274**
Oxidative Stress as a Mediator of Long-Chain PFAS-Induced Mitochondrial Impairment. *M. Khatun, U. Sathisaran, and J. L. Freeman.* Purdue University, West Lafayette, IN.

#4507	Poster Board Number D275 Early-Life PFAS Exposure Impairs Mitochondrial Bioenergetics and Dopaminergic Development in Zebrafish. <i>U. Sathisaran, and J. L. Freeman.</i> Purdue University, West Lafayette, IN.
#4508	Poster Board Number D276 Perfluorooctanoic Acid (PFOA) exposure accelerates <i>Drosophila melanogaster</i> growth and development. E. A. Kilbourn ¹ , M. R. Lowe ¹ , K. Panda ² , A. Bhaskaran ² , A. R. Aalati ¹ , A. Malave ¹ , A. Graber ¹ , S. White ¹ , N. Zulkowski ¹ , P. Reddy ² , E. Meyhofer ² , and J. M. Tennessen ¹ . ¹ Indiana University Bloomington, Bloomington, IN; and ² University of Michigan, Ann Arbor, MI. Sponsor: <i>M. Bondesson</i>
#4509	Poster Board Number D277 Persistent Effects of PFAS on Marine Medaka (<i>Oryzias melastigma</i>) Immune Competence. A. Rizzo ¹ , E. R. DiBona ² , and F. Seemann ¹ . ¹ Texas A&M University-Corpus Christi, Corpus Christi, TX; and ² University of Texas, Austin, TX.
#4510	Poster Board Number D278 PFAS-mediated eicosanoid changes in a mouse model of pancreatic cancer. <i>L. M. Kamendulis, and B. A. Hocevar.</i> Indiana University, Bloomington, IN.
#4511	Poster Board Number D279 Cluster of differentiation 36 (CD36) has a modest effect on perfluorooctanesulfonic acid (PFOS)-induced liver alterations and disposition. <i>J. Zeng¹, J. Agudelo Areiza¹, S. Vojta², J. Becanova², O. Skende¹, F. C. Fischer¹, C. Liu¹, and A. L. Slitt¹.</i> ¹ University of Rhode Island, Kingston, RI; and ² Graduate School of Oceanography, University of Rhode Island, Narragansett, RI.
#4512	Poster Board Number D280 Examining sex-specific relationships between PFOS & reward responsivity. A. K. Moline, K. M. Witkowiak, L. Q. Larson, Y. Choi, L. S. Lee, and D. Foti. Purdue University, West Lafayette, IN.
#4513	Poster Board Number D281 Perfluorooctane sulfonate exacerbates AHR-mediated toxicity by inhibiting CYP1A and altering its gene expression. <i>D. H. Miller, A. Lachapelle, K. Satbhai, and A. R. Timme-Laragy.</i> University of Massachusetts Amherst, Amherst, MA.
#4514	Poster Board Number D282 PFOS and Mitochondrial Function: Unveiling an Inert Molecule's Metabolic Disruption. D. Greig ¹ , M. Erol ¹ , M. Jang ¹ , M. Grimes ¹ , S. Y. Park ^{1,2} , and G. Layec ¹ . ¹ University of Nebraska at Omaha, Omaha, NE; and ² University of Nebraska Medical Center, Omaha, NE. Sponsor: G. Layec, American Physiological Society
#4515	Poster Board Number D283 Evaluation of Occupational Exposure and Bioavailability of Micropowders of Polytetrafluoroethylene (PTFE): Integrated <i>In Vivo</i> and <i>In Silico</i> Approaches. <i>J. Anderson¹, J. Vargas², D. Singh³, and M. Schlipf⁴.</i> ¹ Exponent Inc., Austin, TX; ² Exponent Inc., Phoenix, AZ; ³ Exponent Inc., Oakland, CA; and ⁴ Fluorocarbon Polymer Solutions GmbH, Burgkirchen, Germany.
#4516	Poster Board Number D284 Region- and sex-dependent accumulation of perfluorooctanesulfonic acid (PFOS) in the rat brain revealed by Desorption Electrospray Ionization Mass Spectrometry Imaging (DESI-MSI). <i>H. Pol, J. M. Brown-Leung, F. Currim, C. Ferreira, and J. R. Cannon.</i> Purdue University, West Lafayette, IN.
#4517	Poster Board Number D285 Perfluoroalkyl Substances (PFAS) Exposure Exacerbates Metabolic Dysfunction in Alcohol-Associated Liver Disease. <i>K. Nguyen, and H. Ni.</i> University of Kansas Medical Center, Kansas City, KS.

- #4518 **Poster Board Number D286**
Effects of PFOA on Physiology and Locomotor Behavior on *Drosophila melanogaster*.
 E. Rodriguez Borrero¹, A. Garced Diaz¹, A. Rivera Alsina¹, Z. Blasini Picart¹, A. Rodríguez González¹,
 N. Rosario Ramos¹, K. Castrodad Rolón¹, and L. B. Mendez². ¹University of Puerto Rico at Cayey,
 Cayey, PR; and ²Ana G. Mendez University, Carolina, PR.
- #4519 **Poster Board Number D287**
Exploring the Role of SIRT1 in PFAS Mediated Steatosis. J. M. Woodward, E. Mitchem, P. Harris,
 K. Fritz, J. N. Lampe, and R. L. McCullough. University of Colorado Anschutz Medical Campus, Aurora,
 CO.
- #4520 **Poster Board Number D288**
***Drosophila melanogaster* as a Research Model to Study the Impact of PFAS on**
Neuroplasticity of Complex Motor Behaviors. E. Rodriguez Borrero¹, A. Y. Diaz Flores¹,
 A. Garced Diaz¹, A. Gonzalez Fuentes¹, M. V. Candelario Gonzalez¹, and L. B. Mendez². ¹University of
 Puerto Rico at Cayey, Cayey, PR; and ²Ana G. Mendez University, Carolina, PR.
- #4521 **Poster Board Number D289**
High-Throughput Prediction of PFAS Binding Affinities with Human Liver-Fatty Acid
Binding Protein Using Machine Learning and QSAR Model. Y. Jia^{1,2}, and L. Zhu¹. ¹College
 of Environmental Science and Engineering, Nankai University, Tianjin, China; and ²Brigham and
 Women's Hospital, Harvard Medical School, Boston, MA.
- #4522 **Poster Board Number D290**
Toxicological Perspectives on PFAS Exposure Shift: Hepatotoxicity and Gut-Liver Axis
Disruption in Adult Zebrafish. S. Park, and K. Kim. Seoul National University of Science
 Technology, Seoul, Korea, Republic of.
- #4523 **Poster Board Number D291**
Chronic apple juice administration enhances per- and polyfluoroalkyl substances
(PFAS) elimination and lowers systemic and hepatic burden. O. Skende¹, S. Ryu¹, S. Vojta²,
 J. Becanova², J. Zeng¹, J. Agudelo Areiza¹, Y. Zhang³, C. Messerlain⁴, F. C. Fischer¹, and A. L. Slitt¹.
¹Department of Biomedical and Pharmaceutical Sciences, University of Rhode Island, Kingston, RI;
²Graduate School of Oceanography, University of Rhode Island, Kingston, RI; ³Peking University,
 Beijing, China; and ⁴McGill University, Department of Epidemiology and Biostatistics, Montreal, QC,
 Canada.
- #4524 **Poster Board Number D292**
Half-life determination for oral perfluorooctanesulfonic acid (PFOS) in rat brain,
cerebrospinal fluid, liver, and serum. J. M. Brown-Leung^{1,2}, F. Currim^{1,2,2}, H. Pol^{1,2}, Y. Choi³,
 M. S. Sepúlveda⁴, L. S. Lee³, and J. R. Cannon^{1,2}. ¹School of Health Sciences, Purdue University, West
 Lafayette, IN; ²Purdue Institute for Integrative Neuroscience, Purdue University, West Lafayette,
 IN; ³Department of Agronomy, Purdue University, West Lafayette, IN; and ⁴Department of Forestry
 and Natural Resources, Purdue University, West Lafayette, West Lafayette, IN.
- #4525 **Poster Board Number D293**
Effects of Early-Life Exposure to PFAS on Adolescent Neuroimmune Activity. G. Valdez¹,
 J. Ross¹, L. Zhao², R. M. Sargis², and M. R. Bell¹. ¹DePaul University, Chicago, IL; and ²University of
 Illinois Chicago, Chicago, IL.
- #4526 **Poster Board Number D294**
Assessment and Determination of Toxicological Endpoints of Sevoflurane Exposure in
***C. elegans*.** J. Tewksbury¹, C. Evans², and C. L. McGinnis². ¹Quinnipiac University, Frank H. Netter
 MD School of Medicine, North Haven, CT; and ²Quinnipiac University, Department of Biological
 Sciences, Hamden, CT.

#4527	Poster Board Number D295 Assessment of Aqueous Film-Forming Foam (AFFF)-Based Mixture of 27 PFAS Compared to the Mixture of Six Regulated PFAS on the Development and Toxicokinetics in Larval Zebrafish (<i>Danio rerio</i>). K. M. Satbhai, J. Lee, S. Emani, A. Lachapelle, H. Robertson, J. Doherty, J. Clark, and A. R. Timme-Laragy. University of Massachusetts, Amherst, MA.
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Wednesday, March 25, 1:45 PM to 4:15 PM, Exhibit Hall B, Convention Center

PS Poster Session: Micro- and Nanoplastics

Chair(s): Iris Camacho-Ramos, Keller and Heckman LLP; and Humaira Rahman, New Mexico State University.

Displayed: 9:00 AM–4:30 PM | Author Attended: 1:45 PM–4:15 PM

Abstract

#4528	Poster Board Number D297 Methodological framework for enhancing the reliability of polymer plastic quantification in toxicological research. R. Herrera, M. E. Park, S. Patil, M. Garcia, R. Liu, E. Descher, J. Kingston, J. Kingston, L. Barela, M. MazloumiBakhshayesh, M. Campen, and E. El Hayek. University of New Mexico, Albuquerque, NM.
#4529	Poster Board Number D298 Exposure to Polystyrene Microplastics Potentiates Macrophage-Mediated Proinflammatory Responses. L. K. Heine ¹ , M. A. Esquibel ¹ , O. F. McDonald ² , A. M. Baca ¹ , G. A. Picha ¹ , B. B. Maes ¹ , M. A. Garcia ¹ , E. E. Hayek ¹ , J. J. Pestka ^{2,3} , and S. Medina ¹ . ¹ University of New Mexico College of Pharmacy, Albuquerque, NM; ² Department of Microbiology, Genetics, and Immunology, Michigan State University, East Lansing, MI; and ³ Department of Food Science and Human Nutrition, Michigan State University, East Lansing, MI.
#4530	Poster Board Number D299 Allergic Contact Dermatitis Model for Assessing Contaminated Microplastics Isolated by Nanomembrane Technology. A. Avila Oropeza, and L. DeLouise. University of Rochester School of Medicine and Dentistry, Rochester, NY.
#4531	Poster Board Number D300 Microplastic exposure exacerbates atherosclerosis development in lean LDL receptor-deficient mice. T. Lin ¹ , J. Pan ¹ , N. Mya ¹ , Q. Ma ² , L. Sun ² , S. Tang ¹ , M. Campen ³ , H. Chen ⁴ , and C. Zhou ¹ . ¹ UC Riverside, Riverside, CA; ² Boston Children's Hospital, Boston, MA; ³ University of New Mexico Health Sciences, Albuquerque, NM; and ⁴ Boston Children's Hospital and Harvard Medical School, Boston, MA.
#4532	Poster Board Number D301 Microplastics in Edible Tissues of Commercial Fisheries sampled from Major Marine Fish Landing Sites across Coastal States in Nigeria. T. O. Sogbanmu, D. G. Arokoyu, and O. O. Ogunfeitimi. University of Lagos, Lagos, Nigeria.
#4533	Poster Board Number D302 Assessing the Influence of Nano-Plastic Particle Size on Developmental Toxicity, Bio-Distribution, and DNA Damage Using Chicken Embryos. F. Yasmin, and C. Wu. University of Delaware, Newark, DE.

- #4534 **Poster Board Number D303**
Assessing the toxicity of fragmented virgin and UV-aged polyamide microplastics on human tissue-derived intestinal organoids. M. Kloukinioti^{1,2}, M. G. Nooijens¹, F. J. van Schooten², I. Kooter¹, E. van de Steeg¹, L. Parker¹, and H. Braakhuis¹. ¹Netherlands Organization for Applied Scientific Research, TNO, Utrecht, Netherlands; and ²Department of Pharmacology and Toxicology, NUTRIM, Maastricht, Netherlands.
- #4535 **Poster Board Number D304**
Neurotoxic effects of pristine and aged micro- and nanoplastics *in vitro*. E. Kasteel, S. van Kaam, S. Dams, P. Wopken, and R. Westerink. Institute for Risk Assessment Sciences (IRAS), Faculty of Veterinary Medicine, Utrecht University, Utrecht, Netherlands.
- #4536 **Poster Board Number D305**
Polyethylene Micro- and Nanoplastics cause bioaccumulation of cadmium in smokers' lung. G. Kaur¹, M. Faizan¹, F. Effah¹, A. D. Decker², M. A. Garcia², M. J. Campen², and I. Rahman¹. ¹University of Rochester Medical Center, Rochester, NY; and ²University of New Mexico Health Sciences, Albuquerque, NM.
- #4537 **Poster Board Number D306**
Utilizing Single Particle ICP-MS (spICP-MS) to Measure Uptake, Depuration, and Transfer of Polydispersed Nano-Microplastics (NMPs) in *Daphnia magna*. C. Hietpas¹, J. Walker¹, E. Schneiderjan¹, E. Gray¹, J. Ranville², H. Fairbrother³, and J. Crago¹. ¹Texas Tech University, Lubbock, TX; ²Colorado School of Mines, Golden, CO; and ³Johns Hopkins University, Baltimore, MD.
- #4538 **Poster Board Number D307**
Oral Exposure to Polyethylene microplastics aggravates steatosis and metabolic dysfunction. F. A. Ampadu¹, W. Jung², N. Y. Patil¹, I. Rus², T. Oh², and A. D. Joshi¹. ¹Texas A&M College of Veterinary Medicine & Biomedical Sciences, College Station, TX; and ²University of Oklahoma Health Sciences Center, Oklahoma City, OK.
- #4539 **Poster Board Number D308**
Bayesian Physiologically Based Pharmacokinetic (PBPK) Modeling Integrated with Particle Dosimetry to Predict Inhalation Exposure and Biodistribution of Airborne Microplastics in Humans. G. Li^{1,2}, A. Ukbamichael³, Y. Chen^{1,4}, and W. Chou^{4,3}. ¹National Institute of Environmental Health Sciences, National Health Research Institutes, Zhunan, Taiwan; ²Institute of Analytical and Environmental Sciences, National Tsing Hua University, Hsinchu, Taiwan; ³Environmental Toxicology Graduate Program, University of California, Riverside, Riverside, CA; and ⁴Department of Environmental Sciences, University of California, Riverside, Riverside, CA.
- #4540 **Poster Board Number D309**
The role of microplastic oxidation in promoting inflammation in lung cells. R. L. Kendall, J. M. Albright, M. G. Miller, R. F. Hamilton Jr., and A. Holian. University of Montana, Missoula, MT.
- #4541 **Poster Board Number D310**
Chylomicron-Mediated Translocation of Oxidized Nano- and Microplastics into the Circulatory System and Human Heart Tissue. M. MazloumiBakhshayesh¹, L. Lucchini¹, L. R. Barela¹, R. M. Clark¹, D. F. Gallego¹, G. Herbert¹, E. Risotto-Urbanowicz¹, J. G. Begay¹, S. Patil¹, P. Massie¹, B. E. Baird¹, E. Y. Suh¹, C. Cevering¹, E. Rowland¹, M. M. Vilay¹, R. M. Taylor¹, M. E. Park¹, R. M. Smith¹, E. El Hayek¹, R. R. Rama R. Gullapalli¹, B. E. Bleske¹, J. G. In¹, T. Hsiai², M. Garcia¹, and M. Campen¹. ¹The University of New Mexico, Albuquerque, NM; and ²University of California, Los Angeles, Los Angeles, CA.
- #4542 **Poster Board Number D311**
Microplastics Exhibit Region Specific Retention in Kidney Tissue and Are Detected in Human Urine. R. M. Taylor¹, H. Steichen¹, S. Stoker¹, A. Arteaga Leon¹, H. H. Rahman², and M. J. Campen¹. ¹University of New Mexico Health Sciences Center, Albuquerque, NM; and ²New Mexico State University, Las Cruces, NM.

- #4543 **Poster Board Number D312**
Prenatal Exposure to Polyethylene Nanoplastics: Preliminary Evidence of Accumulation and Potential Neurodevelopmental Effects in Human Brain Organoids. L. Trovò¹, A. Einhorn¹, S. Pati², E. El Hayek², and L. M. Iakoucheva¹. ¹University of California San Diego, San Diego, CA; and ²University of New Mexico, Albuquerque, NM.
- #4544 **Poster Board Number D313**
Physicochemical Influences on Metal Interactions and Toxicity in Exposure to Real-World Micro- and Nanoplastics. K. Robison, and J. Shannahan. Purdue University, West Lafayette, IN.
- #4545 **Poster Board Number D314**
Paternal exposure to microplastics alters sperm small non-coding RNA landscape and elicits offspring metabolic dysfunctions in mice. S. Park¹, J. Pan¹, X. Zhang², T. Lin¹, Q. Chen², T. Zhou³, and C. Zhou¹. ¹University of California, Riverside, Riverside, CA; ²University of Utah School of Medicine, Salt Lake City, UT; and ³University of Nevada, Reno, NV.
- #4546 **Poster Board Number D315**
Development and characterization of reference environmentally relevant micro-nano-plastics for risk assessment studies. M. Das¹, L. Calderon¹, D. Singh², S. Majumder¹, L. Bazina¹, N. Vaze¹, U. Trivanovic³, G. M. Deloid¹, N. Zuverza-Mena⁴, M. Kaur⁴, J. Konkol¹, N. Tittikpina⁴, G. Tsilomelekis¹, O. Sadik⁵, J. C. White⁴, and P. Demokritou¹. ¹Rutgers University, New Brunswick, NJ; ²Exponent, Oakland, CA; ³Metas, Bern-Wabern, Switzerland; ⁴Connecticut Agricultural Experiment Station, New Haven, CT; and ⁵NJIT, Newark, NJ.
- #4547 **Poster Board Number D316**
Assessing the Effects of UV Aging on Toxicity and Bioavailability of Inductively Coupled Plasma Mass Spectrometry (ICP-MS)-Traceable Core-Shell Polystyrene Nanoplastics in an *In Vitro* Triculture Model of Small Intestinal Epithelium. S. Majumder¹, L. Bazina¹, G. M. Deloid¹, A. G. Garcia², N. Zuverza-Mena², J. Konkol¹, G. Tsilomelekis¹, M. Verzi¹, H. Zhu³, J. C. White², and P. Demokritou¹. ¹Rutgers University, New Brunswick, NJ; ²Connecticut Agricultural Experiment Station, New Haven, CT; and ³Tulane University, New Orleans, LA.
- #4548 **Poster Board Number D317**
Micro(nano)plastic (MNPs) in sinus tissue: A methodology comparison. M. E. Park, N. I. Leyva, S. S. Patil, R. M. Herrera, J. D. Kingston, M. A. Garcia, L. N. Shama, N. H. Reeve, M. X. Herzig, M. J. Campen, E. El Hayek, and D. A. Meiklejohn. University of New Mexico, Albuquerque, NM.
- #4549 **Poster Board Number D318**
Lifecycle implications of polyvinyl chloride (PVC) micronanoplastics (MNPs): Interactions with co-exposed environmental pollutants (EPs) and impact on their toxicity and bioavailability. S. Majumder¹, G. M. Deloid¹, M. Das¹, M. Kaur², E. Gaddi³, S. Alotaibi³, N. Zuverza-Mena², O. Sadik³, J. C. White², and P. Demokritou¹. ¹Rutgers University, New Brunswick, NJ; ²Connecticut Agricultural Experiment Station, New Haven, CT; and ³NJIT, Newark, NJ.
- #4550 **Poster Board Number D319**
Characterization of tire microplastic leachates and their impacts to human epithelial lung cells via *in vitro* studies and multi-omics analysis. I. Walker-Franklin¹, M. Bailey¹, Z. Eastman¹, S. Khan¹, K. Tober¹, S. Blake¹, J. Shipman², M. Hunter¹, V. Sivaraman², and L. Rios-Colon¹. ¹RTI International, Durham, NC; and ²North Carolina Central University, Durham, NC.
- #4551 **Poster Board Number D320**
Role of ApoEε3/4 variants in modifying endothelial uptake and toxicity of microplastics derived from the Pacific Gyre. P. Paramasivam, N. Leyva, M. Garcia, S. Patil, E. El Hayek, S. Phatak, J. Begay, G. W. Herbert, K. Bhaskar, K. Westlund, and M. J. Campen. University of New Mexico, Albuquerque, NM.

- #4552 **Poster Board Number** D321
Physiochemical Interaction Dependent Transportation of Pollutant Adsorbed Nanoplastics (PANs) in Lung Cells. *E. J. Hale, E. F. Wooliever, S. C. Nicklisch, and R. P. Carney.*
 University of California Davis, Davis, CA.
- #4553 **Poster Board Number** D322
Real-World Micro/Nanoplastics and Pristine Nanoplastics Differentially Disrupt Microglial Mitochondrial and Redox Homeostasis. *A. M. Nunes, S. Vogt, and P. Falagan Lotsch.*
 Auburn University, Auburn, AL.
- #4554 **Poster Board Number** D323
Methodological Approaches for Food Digestion in Micro(nano)plastic (MNP) Analysis and Quantification to Assess Human Dietary Exposure. *E. R. Descher¹, C. L. Bren¹, C. R. Rabino², M. E. Park¹, S. S. Patil¹, R. M. Hernandez¹, G. Sanchez¹, A. Moranan³, J. D. Kingston¹, M. A. Garcia¹, J. Gonzalez-Estrella⁴, M. J. Campen¹, and E. El Hayek¹.* ¹University of New Mexico, Albuquerque, NM; ²Zuni High School, Zuni, NM; ³Alamo High School, Alamo, NM; and ⁴Oklahoma State University, Stillwater, OK.
- #4555 **Poster Board Number** D324
Mechanism of Pulmonary Toxicity by Inhaled Polyester Microplastic Fibers in Mice. *A. O'Connor¹, T. Jilling², Y. Goddard¹, A. Lewis³, P. L. Ferguson², B. Mehrad¹, and T. Sabo-Attwood².*
¹University of Florida, Gainesville, FL; ²University of South Carolina, Columbia, SC; and ³Duke University, Durham, NC.
- #4556 **Poster Board Number** D325
Chemical Additive Leaching and Human Exposure Potential from PVC and PE Microplastics in U.S. Drinking Water. *A. C. Jachak, S. Patel, T. Shughart, and A. Youngberg.* RHP Risk Management, Inc., Chicago, IL. Sponsor: A. Jachak, Society for Risk Analysis
- #4557 **Poster Board Number** D326
Microplastic And Nanoplastic Testing Framework: Shortfalls and Recommendations Based on A Structured Review of Recent Research. *J. Cubello¹, B. Head¹, E. Freeman¹, and K. Morris-Schaffer².* ¹Exponent, Inc., Washington, DC; and ²Exponent, Inc., New York, NY.
- #4558 **Poster Board Number** D327
Mechanistic Insights into Nanoplastic Uptake and Barrier Dysfunction in Human Cell Lines. *A. M. Janiga-MacNelly, and R. Lavado.* Baylor University, Waco, TX.

Wednesday, March 25, 1:45 PM to 4:15 PM, Exhibit Hall B, Convention Center

PS Poster Session: ADME/Toxicokinetics II

Chair(s): Madhu Hemachandra, SmartPractice.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 1:45 PM–4:15 PM

Abstract #

- #4559 **Poster Board Number** D333
Proquinazid: In Vitro Metabolism of an Agrochemical Fungicide to support Mechanistic Toxicology Testing and PBK Model Development. *M. W. Himmelstein¹, M. P. Mawn¹, and L. Kent².* ¹Corteva Agriscience, Newark, DE; and ²Corteva Agriscience, Milton Park, United Kingdom.

- #4560 **Poster Board Number D334**
Neurotoxicity Risk Modeling of Oral-Mucosal BPA Exposure from Dental Resin Composites: Implications for Reassessing the U.S. EPA Standard. R. Y. Kim¹, S. C. Simona², and Y. L. Kapila¹. ¹University of California, Los Angeles, Los Angeles, CA; and ²University of California, Irvine, Irvine, CA. Sponsor: *O. Hankinson*
- #4561 **Poster Board Number D335**
A Key Biodistribution Study, with Fluorescent Acquisitions in Mice, for the Development of a Therapeutic Candidate for ALS Patients. J. Medina¹, M. Pierrelvelcin², O. Petit², V. Pierre², C. Levasseur², E. Chereul², and H. Perron¹. ¹GeNeuro Innovation, Geneva, Switzerland; and ²ERBC, Dommartin, France. Sponsor: *R. Fares*
- #4562 **Poster Board Number D336**
Analytical method development and dermal absorption of Pyranine Conc(G204), a cosmetic ingredient. K. Kim, J. Kim, H. Kim, H. Chung, J. Lee, J. Kim, and H. Kim. Dankook University, Cheonan, Korea, Republic of.
- #4563 **Poster Board Number D337**
Hepatotoxic Mechanisms by Drug-Induced Cholestasis and Reactive Metabolites in Human Hepatocyte Co-Culture System. C. H. Cho¹, T. Landry², and M. Klausner². ¹Visikol, Inc, Ashland, MA; and ²MatTek Corporation, Ashland, MA.
- #4564 **Poster Board Number D338**
Multi-Method, Interpretable Prediction of Oral Bioavailability and Formulation Vehicle Effects. S. Chakravarti¹, M. Girireddy¹, S. Parker², K. Ehman³, and G. Cioffi¹. ¹MultiCASE Inc., Mayfield Heights, OH; ²SParker Toxicology Consulting LLC, Fort Lauderdale, FL; and ³Eurofins Medical Device Services, Lancaster, PA.
- #4565 **Poster Board Number D339**
Proquinazid: Quantitative Blood and Plasma Metabolite Identification in the Sprague-Dawley Rat to Support an Improved Evaluation of Internal Dosimetry. C. McAllister¹, M. W. Himmelstein¹, L. Cai¹, and L. Kent². ¹Corteva Agriscience, Newark, DE; and ²Corteva Agriscience, Milton Park, United Kingdom.
- #4566 **Poster Board Number D340**
iPSC-derived Intestinal Epithelial Cells Form a Functional, Relevant Barrier Model of the Human Gut. K. Twaroski, Y. Imakura, S. Burton, C. Savic, M. Donegan, R. Lewis, J. Liu, R. Fiene, D. Majewski, and C. Carlson. FUJIFILM Cellular Dynamics, Madison, WI. Sponsor: *R. Vaidyanathan*
- #4567 **Poster Board Number D341**
Analyses of delta9-tetrahydrocannabinol and the endocannabinoids in mouse plasma and brain. S. H. Lusk, E. G. Romero, T. S. Freeman, K. S. Caldwell, L. Sun, M. D. Smith, C. A. Reilly, C. D. Rice, and J. E. Rower. University of Utah, Salt Lake City, UT.
- #4568 **Poster Board Number D342**
MSQ-DTR: A targeted proteomics tool for transporter quantification and validation of blood-brain barrier *in vitro* model systems. D. Melville, B. Prasad, and C. J. Watson. Precision Quantomics Inc, Spokane, WA. Sponsor: B. Prasad, American Society for Pharmacology and Experimental Therapeutics
- #4569 **Poster Board Number D343**
Development and Application of a Physiologically-Based Kinetic Model for Evaluation of Internal Dosimetry in the Rat and Human. J. Fitzpatrick¹, M. W. Himmelstein², and L. Kent³. ¹Corteva Agriscience, Indianapolis, IN; ²Corteva Agriscience, Newark, DE; and ³Corteva Agriscience, Milton Park, United Kingdom.

#4570	Poster Board Number D344 A Physiologically Based Pharmacokinetic (PBPK) Model to Align Dosimetry of the Isobutyl Metabolic Series in Rats and Humans. <i>J. N. Smith^{1,2}, K. J. Tyrrell¹, K. K. Weitz¹, and W. Faber³.</i> ¹ Pacific Northwest National Laboratory, Richland, WA; ² Oregon State University, Corvallis, OR; and ³ Willem Faber Toxicology Consulting, LLC, Victor, NY.
#4571	Poster Board Number D345 MASH Impairs Renal Anion Transporter Function and Alters Cefazolin Disposition. <i>M. M. Maloney, D. O. Farrera, L. J. Martinez-Guerrero, S. Marie, M. M. Alaaldin, P. Lindberg, K. Frost, P. A. Sample, C. S. LaMadrid, P. Lenzen-Hammerel, L. R. Radtke, S. H. Wright, and N. J. Cherrington.</i> University of Arizona, Tucson, AZ.
#4572	Poster Board Number D346 PCB-11 Induces Brain CYP2B10 Expression and Activity in Mice: Implications for Neurotoxicity and Drug Interaction Potential. <i>D. Manhas¹, W. Han¹, M. Hollon¹, X. Wu¹, W. Yang¹, X. Li², Q. Zhang¹, H. Lehmler², P. J. Lein³, and X. Ding¹.</i> ¹ University of Arizona, Tucson, AZ; ² University of Iowa, Iowa, IA; and ³ University of California Davis, Davis, CA.
#4573	Poster Board Number D347 Translating Internal Dosimetry of an Environmental Mixture of Polycyclic Aromatic Hydrocarbons (PAHs) from Zebrafish to Humans. <i>J. N. Smith^{1,2}, C. I. Rude², K. A. Gaither¹, and R. L. Tanguay².</i> ¹ Pacific Northwest National Laboratory, Richland, WA; and ² Oregon State University, Corvallis, OR.
#4574	Poster Board Number D348 Evaluation of Urinary Electrolyte Excretion using Creatinine Correction in Small Mice. <i>A. Hasegawa, M. Okumura, Y. Suzuki, C. Matsuura, K. Kondo, T. Takahashi, and T. Shoda.</i> Toxicology Research Laboratories, Yokohama Research Center, Shionogi & Co., Ltd., Yokohama, Kanagawa, Japan. Sponsor: <i>E. Spicer</i>
#4575	Poster Board Number D349 Considerations for Appropriate Application of One-Compartment Toxicokinetic Models to Assess Per- and Polyfluoroalkyl Substances (PFAS) Exposures. <i>J. Chien, R. D. Rogers, and B. D. Beck.</i> Gradient, Boston, MA.
#4576	Poster Board Number D350 A Physiologically Based Pharmacokinetic Model for Tyrosine Kinase Inhibitor Zongertinib in Adults. <i>L. Wang, and Z. Lin.</i> University of Florida, Gainesville, FL.
#4577	Poster Board Number D351 PFAS-Mediated Inhibition of Cytochrome P450 Enzymes: Implications for Drug and Endogenous Metabolism in Humans. <i>N. Ferguson, J. A. Areiza, G. Norman, and F. C. Fischer.</i> University of Rhode Island, Kingston, RI.
#4578	Poster Board Number D352 Access Rich Toxicokinetics Data through the Chemical Effects in Biological Systems (CEBS) Platform. <i>M. Jackson¹, L. Hall², J. Fostel², J. Berke¹, H. Dean¹, Y. Liu², and S. Waidyanatha².</i> ¹ ASRC Federal Data Solutions, Beltsville, MD; and ² NIEHS, Research Triangle Park, NC.
#4579	Poster Board Number D353 Beyond the kinetically derived maximum dose: a holistic view of nonlinear pharmacokinetics. <i>C. Tan¹, D. Hoer¹, E. Mendez², and J. Leonard².</i> ¹ US Environmental Protection Agency, Research Triangle Park, NC; and ² US Environmental Protection Agency, Washington, DC.
#4580	Poster Board Number D354 Cross-Species Comparisons of Plasma Binding and Metabolic Clearance Data for Use in New Approach Methods. <i>J. L. Sims¹, A. Kamel², P. Patel³, S. Watson³, Y. Yueh³, S. R. Black³, and S. G. Lynn².</i> ¹ USEPA, Duluth, MN; ² USEPA, Washington D.C., DC; and ³ RTI International, Research Triangle Park, NC.

- #4581 **Poster Board Number** D355
MCSimMod: Updates and Improvements to an R Package for Implementation and Application of PBPK Models. *D. F. Kapraun, T. J. Zurlinden, C. M. Schacht, and P. M. Schlosser.*
 U.S. EPA, RTP, NC.
- #4582 **Poster Board Number** D356
Evaluation of a lung microphysiological system for measuring concentrations of anti-infective drugs in epithelial lining fluid. *S. Rahman, R. Geiger, M. Roni, R. DePalma, K. Wu, A. Nicasio, T. Feaster, and K. Blinova.* United States Food and Drug Administration, Silver Spring, MD. Sponsor: *K. Howard*
- #4583 **Poster Board Number** D357
Investigation of human metabolism of PFAS and low-turnover chemicals in liver spheroid cultures. *T. Yajima^{1,2}, W. Qu¹, A. Cook³, M. Rezin³, K. Aillon³, S. Waidyanatha¹, and S. S. Ferguson¹.* ¹NIEHS, Research Triangle Park, NC; ²The Institute of Environmental Toxicology, Ibaraki, Japan; and ³MRI Global, Kansas City, MO.
- #4584 **Poster Board Number** D358
HepaSH cells as a platform to evaluate the impact of genetic polymorphisms on cytochrome P450-mediated metabolic drug clearance. *S. Uehara¹, Y. Higuchi¹, N. Yoneda¹, H. Yamazaki², and H. Suemizu¹.* ¹Central Institute for Experimental Medicine and Life Science, Kawasaki, Japan; and ²Showa Pharmaceutical University, Machida, Japan.

Wednesday, March 25, 9:15 AM to 11:45 AM, Exhibit Hall B, Convention Center

PS Poster Session: Metals II

Chair(s): Dana Dolinoy, University of Michigan School of Public Health; and Abu Ebrahim Siddique, University of Iowa.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 9:15 AM–11:45 AM

Abstract #

- #4585 **Poster Board Number** E360
Single cell lung transcriptomics of low-level dietary and environmental cadmium exposure following early-life respiratory syncytial virus infection. *Z. R. Jarrell¹, C. Lee¹, H. Y. Lee¹, M. L. Orr¹, K. Kim², Y. Chen³, S. Kang², D. P. Jones¹, and Y. Go¹.* ¹Emory University, Atlanta, GA; ²Georgia State University, Atlanta, GA; and ³University of Oklahoma Health Sciences Center, Oklahoma City, OK.
- #4586 **Poster Board Number** E361
Palmitoyltransferase zDHH9 Regulates Fibrotic Marker Col1A1 Expression Through a Post-Transcriptional Mechanism in Human Lung Fibroblasts. *C. M. Lee, H. Lee, Z. Jarrell, D. Jones, and Y. Go.* Emory University, Atlanta, GA.
- #4587 **Poster Board Number** E362
Cell death mechanism of novel indium-containing terpyridine metal complexes for breast cancer cells. *A. Li¹, S. Mo¹, A. Hong², J. Chen², G. Zhang², and S. Cheng².* ¹Stuyvesant High School, New York, NY; and ²John Jay College of Criminal Justice, New York, NY.

- #4588 **Poster Board Number E363**
Optically filtered Monochromatic portable X-ray fluorescence (MXRF) quantifies lead in wild bird bone with ICP-MS validation and defined detection limits. *K. E. Adesina¹, J. A. DiNatale¹, S. S. Costa¹, B. Faber¹, T. E. Katzner², S. Cooper³, M. Martin⁴, T. R. Grier¹, and A. J. Specht^{1,5}.* ¹Purdue University, West Lafayette, IN; ²U.S. Geological Survey, Forest and Rangeland Ecosystem Science Center, Boise, ID; ³Carolina Raptor Center, Huntersville, NC; ⁴North Carolina Department of Agriculture and Consumer Services, Raleigh, NC; and ⁵Harvard T.H. Chan School of Public Health, Boston, MA.
- #4589 **Poster Board Number E364**
How Mercury Reshapes and Damages Neuronal Architecture: Insights from Cryo-Correlative Synchrotron-Fluorescence Imaging. *I. Kelkoul¹, N. Pied², M. Fernandez Monreal², P. Cloetens³, A. Carmona¹, and R. Ortega¹.* ¹Univ. Bordeaux, CNRS, LP2I Bordeaux, UMR 5797, Chemical Imaging and Speciation in Neurosciences, Gradignan, France; ²BIC, Bordeaux Imaging Center, Bordeaux, France; and ³ESRF, The European Synchrotron, Grenoble, France.
- #4590 **Poster Board Number E365**
NUPR1 Confers Protection Against Chromium Toxicity in Beas2B cells. *J. Mollaneda.* NYU Langone, New York, NY.
- #4591 **Poster Board Number E366**
Correlation Between Urinary Metals and Chronic Diseases in Well-Water Users in New Mexico Border Counties. *J. Zhang¹, O. Templin¹, S. Majidi¹, M. J. Campen², S. H. Munson-McGee³, and H. H. Rahman¹.* ¹New Mexico State University, Las Cruces, NM; ²University of New Mexico, Albuquerque, NM; and ³Data Forward Analytics, LLC, Las Cruces, NM.
- #4592 **Poster Board Number E367**
Analysis of potential drivers of tungsten-enhanced breast cancer metastasis: A longitudinal study of bone marrow adipocytes. *C. M. McVeigh, J. A. Tjung, J. L. Moreno, S. J. Yazzie, L. K. Heine, G. A. Picha, S. C. Helewicz, G. W. Herbert, S. Medina, and A. M. Bolt.* University of New Mexico, Albuquerque, NM.
- #4593 **Poster Board Number E368**
Antibiotic Perturbation of the Gut Microbiome Increases Susceptibility to Arsenic-Induced Urothelial Cytotoxicity in the Murine Bladder. *T. M. Wolfe¹, E. Dardenne-Ankringa¹, S. M. Cohen², and S. T. Walk¹.* ¹Montana State University, Bozeman, MT; and ²University of Nebraska Medical Center, Omaha, NE.
- #4594 **Poster Board Number E369**
A Lesson in Exposure Relevance: How Cr(VI) Concentrations Change Pathways of Toxicity in a *C. elegans* Model. *S. T. Vielee¹, H. Lu¹, N. Besaw¹, L. Cai¹, M. Aschner², and J. Wise, Jr.³.* ¹University of Louisville, Louisville, KY; ²Albert Einstein College of Medicine, New York City, NY; and ³University of Toledo, Toledo, OH.
- #4595 **Poster Board Number E370**
Nascent Proteome is the Main Target of Toxic Protein Damage by Cadmium in Human Cells. *G. Ursu, and A. Zhitkovich.* Brown University, Department of Pathology and Laboratory Medicine, Providence, RI.
- #4596 **Poster Board Number E371**
A New Model for Studying Arsenic-induced Skin Carcinogenesis. *A. N. Nail, M. Banerjee, A. P. Ferragut Cardoso, S. Thomas, J. Hwang, J. W. Park, and J. C. States.* University of Louisville, Louisville, KY.
- #4597 **Poster Board Number E372**
Intestinal SLC30A10 suppresses manganese absorption in hereditary hemochromatosis. *M. Prajapati¹, L. Chiu², J. Zhang², G. Chong², and T. Bartnikas².* ¹Ferris State University, Big Rapids, MI; and ²Brown University, Providence, RI.

#4598	Poster Board Number E373 Leveraging a human induced pluripotent stem cell-derived cardiomyocyte system to study the effects of inorganic arsenic exposure during cardiac development. <i>M. K. Steiner</i> ¹ , <i>E. Tampakakis</i> ² , and <i>M. Kohr</i> ¹ . ¹ Johns Hopkins Bloomberg School of Public Health, Baltimore, MD; and ² Johns Hopkins School of Medicine, Baltimore, MD.
#4599	Poster Board Number E374 Mechanism-guided Gut Microbiome Engineering for Arsenic Detoxification. <i>J. Peng</i> , <i>J. Feng</i> , <i>Y. Yang</i> , and <i>K. Lu</i> . University of North Carolina at Chapel Hill, Chapel Hill, NC.
#4600	Poster Board Number E375 Investigation into Immune Cell Dysregulation and Autoimmune Disease Mechanisms Following Exposure to Uranium Bearing Dust <i>in vivo</i>. <i>J. L. Moreno</i> , <i>M. Afaghpour-Becklund</i> , <i>C. McVeigh</i> , <i>S. Yazzie</i> , <i>O. Edeh</i> , <i>B. Baird</i> , <i>R. Lui</i> , <i>J. Cerrato</i> , <i>K. Zychowski</i> , <i>S. Blossom</i> , and <i>A. Bolt</i> . University of New Mexico, Albuquerque, NM.
#4601	Poster Board Number E376 Zinc and Nickel Inhibit GLP-1, GIP, and Glucagon Signaling in Insulin Secreting Beta Cells. <i>O. G. Chepurny</i> , <i>K. Dennehy</i> , <i>G. G. Holz</i> , and <i>M. El Muayed</i> . SUNY Upstate Medical University, Division of Endocrinology, Syracuse, NY.
#4602	Poster Board Number E377 Assessment of urinary metal exposure in sugarcane workers across a harvest season and their relationship to kidney health biomarkers. <i>S. Santos</i> ¹ , <i>S. Brindley</i> ¹ , <i>J. L. Adgate</i> ² , <i>L. Krisher</i> ² , <i>J. Schaeffer</i> ³ , <i>K. A. James</i> ² , <i>L. Newman</i> ² , and <i>J. M. Brown</i> ¹ . ¹ University of Colorado Anschutz Medical Campus, Aurora, CO; ² Colorado School of Public Health, Aurora, CO; and ³ Colorado State University, Fort Collins, CO.
#4603	Poster Board Number E378 Uranium, Lead, and Other Toxic Metals Mapped in New Mexican Women's Triple-Negative Breast Cancer Samples. <i>D. Aguilar Jr.</i> ¹ , <i>R. E. Holder</i> ¹ , <i>P. Zhao</i> ¹ , <i>X. Zhou</i> ² , <i>E. Erdei</i> ³ , and <i>J. A. Colacino</i> ¹ . ¹ University of Michigan, Ann Arbor, MI; ² Yale University, New Haven, CT; and ³ University of New Mexico, Albuquerque, NM.
#4604	Poster Board Number E379 Novel Application of the EPA All Ages Lead Model (AALM) to Determine an Acute (24-hour) Inhalation Threshold for Lead Protective of Neurotoxicity in Children. <i>S. A. Price</i> , <i>J. L. Bare</i> , <i>A. H. Verwiel</i> , and <i>D. M. Proctor</i> . ToxStrategies LLC, Houston, TX.
#4605	Poster Board Number E380 Scrambling the Genome: Mechanisms of Cr(VI)-induced Chromosome Instability in Lung Carcinogenesis. <i>S. S. Diven</i> ¹ , <i>I. Meaza</i> ¹ , <i>D. Chiarugi</i> ² , and <i>J. P. Wise</i> ¹ . ¹ University of Louisville, Louisville, KY; and ² GeneVia Technologies, Hämeenkatu, Finland.
#4606	Poster Board Number E381 Potential Interactions of Chromium and Vanadium: a Toxicogenomic Analysis. <i>B. Bennett</i> , and <i>M. O. Gribble</i> . University of California, San Francisco, San Francisco, CA.
#4607	Poster Board Number E382 Weight of Evidence Assessment for Toxicities from Retained Lead Pellet. <i>A. Stock</i> ¹ , <i>J. Wang</i> ² , <i>C. Chan</i> ² , <i>K. Tucker</i> ² , and <i>B. Kelman</i> ² . ¹ JS Held LLC, New Orleans, LA; and ² JS Held LLC, Redmond, WA.

Wednesday, March 25, 1:45 PM to 4:15 PM, Exhibit Hall B, Convention Center

PS **Poster Session: Systems Biology and Translational Toxicology**

Chair(s): Brandon Jeffy, Crinetics Pharmaceuticals.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 1:45 PM–4:15 PM

Abstract #

- #4607a **Poster Board Number** E384
Prediction of Obeticholic Acid (OCA) Liver Injury Liability in Patients with Metabolic Dysfunction-Associated Steatotic Liver Disease (MASLD) Using Quantitative Systems Toxicology. A. K. Mayo¹, J. J. Beaudoin², J. L. Woodhead², P. B. Watkins¹, and K. L. Brouwer¹. ¹The University of North Carolina at Chapel Hill, Chapel Hill, NC; and ²QSP Solutions, Simulations Plus Inc., Research Triangle Park, NC.
- #4608 **Poster Board Number** E385
Comparative 28-day mouse study of topically applied aryl hydrocarbon receptor ligands: microbial-derived indoles, therapeutic tapinarof, pollutants 2,3,7,8-tetrachlorodibenzo-*p*-dioxin and diesel exhaust particles. S. Solanki¹, S. M. Tasnim¹, L. L. Thompson¹, M. Alle¹, B. Ward¹, A. T. Slominski², Z. Janjetovic², T. Jozwicka³, P. Erdmańska³, C. H. Sutter¹, E. A. Grice⁴, and T. R. Sutter¹. ¹University of Memphis, Memphis, TN; ²University of Alabama at Birmingham, Birmingham, AL; ³Nicolaus Copernicus University, Torun, Poland; and ⁴University of Pennsylvania, Philadelphia, PA.
- #4609 **Poster Board Number** E386
Single-cell analysis of aryl hydrocarbon receptor-dependent effects of 2,3,7,8-tetrachlorodibenzo-*p*-dioxin (TCDD) on regional and cell specific changes in the pilosebaceous unit of murine skin. S. M. Tasnim¹, S. Solanki¹, J. Bhuj¹, L. Thompson², E. A. Grice³, C. H. Sutter¹, and T. R. Sutter¹. ¹University of Memphis, Memphis, TN; ²Integrated Microscopy Center, Memphis, TN; and ³University of Pennsylvania, Philadelphia, PA.
- #4610 **Poster Board Number** E387
An Investigational Study Aimed at Establishing the Respiratory Minute Volume of the Gottingen Minipig. A. Sia, W. Lee, J. Younan, and K. McNally. ITR Laboratories Canada Inc, Baie D Urfe (Montreal), QC, Canada.
- #4611 **Poster Board Number** E388
Polyvinyl Chloride Nanoparticles Induce Mitochondrial Dysfunction in Human-Induced Cardiomyocytes. X. Li, and Q. Liu. Clemson University, Clemson, SC.
- #4612 **Poster Board Number** E389
In The Zone: A Transcriptomics Approach To Understanding Zone-Selective Fatty Liver Disease. A. P. Gilbert, J. A. Mickel, S. Shrestha, K. Yuan, M. Y. Zahoor, and R. Nault. Michigan State University, East Lansing, MI.
- #4613 **Poster Board Number** E390
Mapping Heterogeneity of Hepatic Zonation in Genetically Diverse Mice Using Single-Nuclei Transcriptomics. M. Zahoor¹, A. P. Gilbert², J. A. Mickel², S. Shrestha³, and R. Nault^{2,4}. ¹Comparative Medicine and Integrative Biology, Michigan State University, East Lansing, MI; ²Department of Pharmacology and Toxicology, Michigan State University, East Lansing, MI; ³Genetics and Genome Sciences, Michigan State University, East Lansing, MI; and ⁴Institute for Integrative Toxicology, Michigan State University, East Lansing, MI.

#4614	Poster Board Number E391 Developmental TBBPA exposure exacerbated western diet-induced metabolic inflammation. J. J. Lim ¹ , S. M. Gibbons ¹ , and J. Y. Cui ² . ¹ Institute for Systems Biology, Seattle, WA; and ² Oregon State University, Corvallis, OR.
#4615	Poster Board Number E392 Muscle-Protective Effects of <i>Cryptotaenia japonica</i> Extract Against Glucocorticoid-Induced Sarcopenia in Cellular and Animal Models. D. Choi ¹ , S. Heo ^{1,2} , H. Lee ^{1,2} , S. Cho ^{1,3} , and C. Choi ^{1,2,3} . ¹ Well-Aging Medicare & CSU G-LAMP Project Group, Chosun University, Gwangju, Korea, Republic of; ² Integrative Biological Sciences & BK21 FOUR Educational Research Group for Age-Associated Disorder Control Technology, Chosun University, Gwangju, Korea, Republic of; and ³ Biomedical Science College of Natural Science, Chosun University, Gwangju, Korea, Republic of.
#4616	Poster Board Number E393 Comparing Models of Zone-Selective Steatosis Using Spatial Transcriptomics. S. Shrestha, A. P. Gilbert, J. A. Mickel, M. Zahoor, and R. Nault. Michigan State University, East Lansing, MI.
#4617	Poster Board Number E394 Sex-Stratified Transcriptomic Analysis Identifies Cholesterol Metabolism Dysregulation in Alzheimer's Disease. M. Azaizah, and P. Baloni. Purdue University, West Lafayette, IN.
#4618	Poster Board Number E395 Single-Cell Profiling of Normal Development and ATRA-induced Teratogenicity in Rat Whole Embryo Culture. L. Li, A. M. Gutierrez, J. A. Gomes, J. Chen, E. Basilio, and J. F. Robinson. University of California San Francisco, San Francisco, CA.
#4619	Poster Board Number E396 Alcohol impairs TFEB-mediated autophagy while exacerbating inflammatory response in the aged liver. S. Williams, W. Ding, and H. Ni. University of Kansas Medical Center, Kansas City, KS.
#4620	Poster Board Number E397 High-Throughput, Extraction-Free miRNA Profiling for Toxicological Applications. Z. Chen, and M. Opichka. Biospyder, Carlsbad, CA.
#4621	Poster Board Number E398 Your clues are in the proteins: enhancing toxicology insights with proteomics. S. Lao, X. Liu, and F. Fan. Johnson & Johnson, San Diego, CA.
#4622	Poster Board Number E399 The Development of Gene Expression Modules from Rat Drug Response Studies Across Heart, Kidney, Liver, and Muscle. S. Denecke, A. Podtelezhnikov, J. Rogers, Z. Erdos, S. Pacchione, F. Shah, R. Gonzalez, and K. Tanis. Merck & Co. Inc., West Point, PA.
#4623	Poster Board Number E400 Evaluation of 2,2'-Dimorpholinodiethyl Ether (DMDEE) in Pathology, Perinatal, and Genotoxicity Studies. R. Frawley ¹ , S. Smith-Roe ¹ , H. Cunny ¹ , K. Stinson ² , and K. Cimon ³ . ¹ NIEHS-NTP, Research Triangle Park, NC; ² Southern Research, Birmingham, AL; and ³ Environmental Pathology Laboratories, Inc., Sterling, VA.
#4624	Poster Board Number E401 Oral Toxicity of Hexanitrohexaazaisowurtzitane (CL-20) in Rats (<i>Rattus norvegicus</i>). T. K. Brown, K. A. MacDonald, L. Crouse, and M. E. Bohannon. Defense Centers for Public Health, Aberdeen, MD. Sponsor: V. Adams
#4625	Poster Board Number E402 Assessment of the reproductive toxicity and neurotoxicity of 1,2,4 trimethylbenzene in rats following gestational and subchronic whole-body inhalation exposure. K. Ryan ¹ , C. Blystone ¹ , J. Harry ¹ , L. Betz ² , G. Roberts ¹ , M. Stout ¹ , K. R. Shockley ³ , and W. Gwinn ¹ . ¹ NIEHS-DTT, Research Triangle Park, NC; ² DLH, LLC, Bethesda, MD; and ³ NIEHS-DIR, Research Triangle Park, NC.

#4626 **Poster Board Number E403**
Hazard characterization of 1,2,4-trimethylbenzene in rats and mice following whole-body inhalation exposure. *W. M. Gwinn¹, G. Roberts¹, M. Stout¹, S. Waidyanatha¹, J. Pierfelice², E. Mutlu³, C. Ganta⁴, M. Cesta¹, M. Cora¹, K. R. Shockley¹, M. Fyle¹, and K. Ryan¹.* ¹NIEHS, Research Triangle Park, NC; ²Battelle, Columbus, OH; ³US EPA, Durham, NC; and ⁴Inotiv, Morrisville, NC.

Wednesday, March 25, 1:45 PM to 4:15 PM, Exhibit Hall B, Convention Center

PS Poster Session: Biomarkers

Chair(s): Yanhong Wei, Sun Yat-sen University School of Public Health, China.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 1:45 PM–4:15 PM

Abstract #

#4627 **Poster Board Number E405**
Single-Crystal Structure and Protonophoric Potential of *N*-(3,5-dichloro-4-hydroxyphenyl) acetamide: Implications for Mitotoxicity of Chlorinated Acetaminophen. *R. M. Uppu¹, and F. R. Fronczek².* ¹Southern University and A&M College, Baton Rouge, LA; and ²Louisiana State University, Baton Rouge, LA.

#4628 **Poster Board Number E406**
Single Crystal Structure of 4-Acetamido-3-chlorophenyl Acetate: An O-Acetylated Proxy for a Putative *In Vivo* *N*-Acetyl-1,4-benzoquinoneimine-Chloride Ion Biomarker Precursor. *S. V. Bai¹, P. F. Mensah¹, G. Li², F. R. Fronczek², and R. M. Uppu¹.* ¹Southern University and A&M College, Baton Rouge, LA; and ²Louisiana State University, Baton Rouge, LA.

#4629 **Poster Board Number E407**
Ezetimibe-Glucuronide as an exogenous biomarker probe identifies MASH. *D. Farrera¹, K. L. Frost¹, J. L. Jilek¹, P. A. Sample¹, J. M. Izu¹, M. M. Alaaldin¹, P. Lindberg¹, M. M. Maloney¹, A. Rodrigues², E. Yamaguchi², S. Ryu², Y. Bib², M. West², S. Mathialagan², S. Lazzaro², B. Rabe³, D. Billheimer³, A. P. Nguyen⁴, M. F. Paine⁴, S. H. Wright³, A. O. Rahimi³, R. Akhbari³, G. Block³, I. Ghaderi³, and N. Cherrington¹, et al.* ¹University, Tucson, AZ; ²Pfizer, Groton, CT; ³University of Arizona, Tucson, AZ; and ⁴Washington State University, Spokane, WA.

#4630 **Poster Board Number E408**
Copper Isotope Ratios as Biomarkers of Combined Dietary and Environmental Stressors. *A. Sprague¹, D. van de Laar¹, J. Beier², F. Marcantonio¹, and N. Johnson¹.* ¹Texas A&M University, College Station, TX; and ²University of Pittsburgh, Pittsburgh, PA.

#4631 **Poster Board Number E409**
Therapy-Induced Rewiring of Synovial Sarcoma Metabolism. *A. Layana, and M. McBride.* Rutgers, the State University of New Jersey, Piscataway, NJ.

#4632 **Poster Board Number E410**
Combining immunocapture and microflow liquid chromatography-tandem mass spectrometry to advance bioanalysis of protein biomarkers in toxicological studies. *Z. Zhou, P. Zhang, X. Yang, J. Huang, and J. Li.* WuXi AppTec (Suzhou) Co., Ltd., Suzhou, China.

- #4633 **Poster Board Number E411**
Arsenic & Zinc Exposure: Correlation with Diabetes and Hypertension in Doña Ana County Well-Water Users. W. R. Stokey¹, S. Majidi², S. H. Munson-McGee,³ M. J. Campen⁴, and H. H. Rahman². ¹Burrell College of Osteopathic Medicine, Las Cruces, NM; ²New Mexico State University, Las Cruces, NM; ³Data Forward Analytics LLC, Las Cruces, NM; and ⁴University of New Mexico, Albuquerque, NM.
- #4634 **Poster Board Number E412**
Associations Between Serum PFAS Profiles and Glaucoma: Evidence for a Branched Amide PFAS Effect in U.S. Adults. J. Asowata¹, J. Roberson¹, A. Lopez-Ramirez¹, A. Bauer¹, D. Jenness¹, A. Ostrovsky², J. Cooke-Bailey¹, and T. Woodlief¹. ¹East Carolina University, Greenville, NC; and ²East Carolina Health, Greenville, NC.
- #4635 **Poster Board Number E413**
Early GDF15 Elevation as a Predictive Biomarker in a Long-Latency Model of Doxorubicin-Induced Cardiomyopathy. A. Kumar, K. Lebarbenchon, J. Yi, and K. Gabrielson. Johns Hopkins University, Baltimore, MD.
- #4636 **Poster Board Number E414**
Red Blood Cell-Derived Extra Cellular Vesicles Serve as Biomarkers of α -Synuclein Pathology and Neuroinflammation in Neurotoxicant-Linked Parkinson's Disease. M. Samidurai, C. Janarthanam, H. Jin, G. Zenitsky, V. Anantharam, A. Kanthasamy, and A. Kanthasamy. University of Georgia, Athens, GA.
- #4637 **Poster Board Number E415**
Stable Copper Isotope Ratios as a Biomarker of Aflatoxin-Induced Hepatocellular Carcinoma. D. van de Laar¹, F. Marcantontio¹, N. Johnson¹, and J. Groopman². ¹Texas A&M University, College Station, TX; and ²John Hopkins University, Baltimore, MD.
- #4638 **Poster Board Number E416**
Implication of route of blood collection on rodent clinical pathology and plasma drug level output. A. Banerjee, M. Frey, M. Lindeblad, and G. Camarillo. University of Illinois at Chicago, Chicago, IL.
- #4639 **Poster Board Number E417**
Analytical method performance evaluation and its application to breath analysis. O. Rivera, T. Perera, and J. Young. US Food and Drug Administration, Silver Spring, MD. Sponsor: B. Oktem
- #4640 **Poster Board Number E418**
Associations Between Occupational and Environmental Metal Exposure, Genotoxic Effects, and Haematological Alterations Among Nigerian Bronze Casters-Biomarker Patterns and Health Outcomes. O. G. Igharo¹, I. H. Igbinsosa¹, B. O. Eiya¹, J. O. Osakue¹, E. L. Igharo¹, J. O. Osunbor¹, I. A. Aruomaren¹, C. F. Harrington², H. B. Osadolor¹, and J. I. Anetor³. ¹University of Benin, Ugbowo, Benin City, Nigeria; ²SAS Trace Elements Centre, Surrey Research Park, Royal Surrey NHS Foundation Trust, United Kingdom; and ³University of Ibadan, Agbowo, Ibadan, Nigeria.
- #4641 **Poster Board Number E419**
Identification of transcriptional biomarkers for major molecular initiating events in rat liver carcinogenesis. K. K. Venneman¹, M. Kotulkar¹, D. Paine-Cabrera¹, C. A. Mitchell², K. Q. Tanis³, J. C. Corton⁴, and U. Apte¹. ¹University of Kansas Medical Center, Department of Pharmacology, Toxicology, and Therapeutics, Kansas City, KS; ²Health and Environmental Sciences Institute, Washington, DC; ³Merck & Co., Inc., Rahway, NJ; and ⁴Center for Computational Toxicology and Exposure, U.S. Environmental Protection Agency, Research Triangle Park, NC.

PS **Poster Session: Genomics, Epigenetics, and Molecular Mechanisms**

Chair(s): Adam Schuller, Colorado State University.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 1:45 PM–4:15 PM

Abstract #

- #4642 **Poster Board Number** **E432**
Persistent transcriptomic changes following repeated exposure to wildfire smoke in non-human primate airway epithelial cells. E. Holmes, A. P. Brown, S. P. Elston, C. M. Royer, and H. Ji. University of California Davis, Davis, CA.
- #4643 **Poster Board Number** **E433**
Ancestral Bisphenol A Exposure Resulted in Sexually Dimorphic Liver Disease, Mitochondrial Complex Suppression, and Gene-Body CpG Island Methylation. S. Anand, S. Chakraborty, and R. K. Bhandari. University of Missouri Columbia, Columbia, MO.
- #4644 **Poster Board Number** **E434**
Inorganic Arsenic Reprograms a Placental miRNA-mRNA Axis Governing Structural and Stress Adaptation. V. Lyu¹, B. Qian¹, J. Ranieri¹, D. Rajasundaram¹, Y. Sadovsky², A. Barchowsky¹, and W. Tang¹. ¹University of Pittsburgh, Pittsburgh, PA; and ²Stanford University, Palo Alto, CA.
- #4645 **Poster Board Number** **E435**
Unraveling Benzo[a]pyrene-induced epigenetic modifications in Japanese medaka. F. Seemann, J. Selwyn, C. Bird, and L. Martin. Texas A&M University-Corpus Christi, Corpus Christi, TX.
- #4646 **Poster Board Number** **E436**
Perinatal lead (Pb) exposure impacts on DNA methylation and hydroxymethylation in mouse hippocampus. J. Dou, R. K. Morgan, E. Matei, J. Pan, T. Ishikawa, K. Polemi, D. C. Dolinoy, J. Colacino, and K. Bakulski. University of Michigan, Ann Arbor, MI.
- #4647 **Poster Board Number** **E437**
DNA Methylation Signatures for Fetal Alcohol Spectrum Disorder Prediction. Y. Fan¹, and F. Gao^{1,2}. ¹Department of Environmental Health Sciences, University of California, Los Angeles, Los Angeles, CA; and ²Department of Molecular and Medical Pharmacology, University of California, Los Angeles, Los Angeles, CA.
- #4648 **Poster Board Number** **E438**
Epigenetic alterations of histone post-translational modifications in response to alcohol. M. T. Levenson, A. Filipowicz, and P. Allard. University of California, Los Angeles, Los Angeles, CA.
- #4649 **Poster Board Number** **E439**
Mitochondrial Dysfunction in Hemin-Induced Acute Kidney Injury is Mediated by Guanine Quadruplex Dynamics. R. J. Snyder¹, U. Shankar¹, C. K. Ganta¹, D. Cunefare¹, A. C. Telang², J. A. Beamish², K. Y. Jen³, and J. A. Watts¹. ¹National Institute of Environmental Health Sciences, Durham, NC; ²University of Michigan, Ann Arbor, MI; and ³UC Davis, Sacramento, CA. Sponsor: J. Watts, American Society for Clinical Investigation; and American Society for Biochemistry and Molecular Biology
- #4650 **Poster Board Number** **E440**
Genome-Wide Redistribution of Newly Synthesized Histones in Human Cells Following Formaldehyde Exposure. D. Chen, P. Wu, and C. Jin. NYU School of Medicine, New York, NY.

- #4651 **Poster Board Number E441**
Exploring Tissue-Specific DNA Co-Methylation Network dynamics During Human Aging.
*Y. Fan*¹, *Y. Zheng*², and *F. Gao*^{1,3}. ¹Department of Environmental Health Sciences, University of California, Los Angeles, Los Angeles, CA; ²Division of Cancer Epidemiology and Prevention, Department of Preventive Medicine, Northwestern University Feinberg School of Medicine, Chicago, IL; and ³Department of Molecular and Medical Pharmacology, University of California, Los Angeles, Los Angeles, CA.
- #4652 **Poster Board Number E442**
Placental miRNA responses to prenatal cannabis, tobacco and alcohol exposure in Rhode Island, US. *N. Sehgal*¹, *R. St. Fleur*², *J. Joseph*², *N. Belanger*², *A. Burt*¹, *K. Hermetz*¹, *C. J. Marsit*¹, *L. R. Stroud*², and *T. M. Everson*¹. ¹Emory University, Atlanta, GA; and ²Brown University, Providence, RI.
- #4653 **Poster Board Number E443**
Metaboloepigenetic mechanisms of transgenerational alcohol-seeking behavior.
A. Filipowicz, *M. Levenson*, *S. Kelso*, and *P. Allard*. University of California, Los Angeles, Los Angeles, CA.

Wednesday, March 25, 9:15 AM to 11:45 AM, Exhibit Hall B, Convention Center

PS Poster Session: Respiratory Toxicology II

Chair(s): Sherleen Adamson, Procter & Gamble.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 9:15 AM–11:45 AM

Abstract #

- #4654 **Poster Board Number F444**
Effect of Theophylline on Respiratory and CNS Parameters in Sprague Dawley Rats.
A. Javed^{1,2}, *F. Zafar*^{3,2}, *U. Waheed*², *M. N. Ghayur*¹, *J. Liu*², and *J. A. Bhalli*². ¹Kentucky College of Osteopathic Medicine, Pikeville, KY; ²Frontage Laboratories, Concord, OH; and ³San Juan Bautista School of Medicine, Caguas, PR.
- #4655 **Poster Board Number F445**
N-Acetylcysteine (NAC) does not prevent symptoms of acute lung injury (ALI) in acrolein-exposed mice. *J. Luisi*, and *B. T. Ameredes*. University of Texas Medical Branch, Galveston, TX.
- #4656 **Poster Board Number F446**
Noninvasive repeated sampling reveals specific respiratory cytokine signatures for individuals who use electronic-cigarettes and tobacco dual-products. *J. L. Thies*¹, *H. J. Appleseth*², *N. Yamaguchi*^{3,4}, *P. G. Bose*¹, *A. M. Speen*¹, *C. Cobos-Urbe*¹, *A. A. Perryman*¹, *A. A. Graham*¹, *A. P. Tackett*⁵, and *M. E. Rebuli*¹. ¹University of North Carolina - Chapel Hill, Chapel Hill, NC; ²Oklahoma State University, Stillwater, OK; ³University of Southern California, Los Angeles, CA; ⁴Rosalind Franklin University of Medicine and Science, Chicago, IL; and ⁵The Ohio State University, Columbus, OH.
- #4657 **Poster Board Number F447**
Quenching the flame: VCAM neutralizes age enhanced neuroinflammation. *S. Phatak*, *B. Baird*, *M. Olewine*, *S. Noor*, and *M. Campen*. University of New Mexico, Albuquerque, NM.

- #4658 **Poster Board Number F448**
Modelling the lung and the COPD pathophysiology in a Mechanically stimulated small airways Lung-on-Chip. R. Visone¹, M. Mondini¹, V. Fragozo Mesa², C. Pernici¹, G. Marchini³, and P. Occhetta¹. ¹BiomimX Srl, Milan, Italy; ²Politecnico di Milano, Milan, Italy; and ³Chiesi Farmaceutici SpA, Parma, Italy. Sponsor: C. Pernici, Safety Pharmacology Society
- #4659 **Poster Board Number F449**
Fiber Diameter Distributions of Modern Synthetic Vitreous Fibers (SVFs): Implications for Exposure and Risk Assessment. A. K. Madl¹, K. Rickabaugh², and B. Wiggins². ¹Valeo Sciences LLC, Ladera Ranch, CA; and ²RJ Lee Group, Pittsburgh, PA.
- #4660 **Poster Board Number F450**
Human macrophage secretory response to woodsmoke condensate exposure is dependent on polarization state, sex, and estrogen receptor activation. E. Hickman, M. Nalesnik, C. Robinette, C. Brooks, N. E. Alexis, and M. E. Rebuli. UNC Chapel Hill, Chapel Hill, NC, NC.
- #4661 **Poster Board Number F451**
In vitro immune off-target toxicity assessment using morph_ONE for antibody drug conjugates (ADCs). E. Hoffman, J. Joel, R. Mahendran, E. Zequiri, A. Martin, and V. Hutter. ImmuONE, Stevenage, United Kingdom.
- #4662 **Poster Board Number F452**
Synergistic Toxicity of E-Cigarette Flavoring Aldehydes and Nicotine in Lung Epithelial Cells. B. Dierolf, and T. Muthumalage. Purdue University, West Lafayette, IN.
- #4663 **Poster Board Number F453**
A Comparative Analysis of Approaches for Identifying Biologically Safe Doses for Asbestos. K. Kissell, M. Stevens, T. Turla, and D. Paustenbach. TRC Strategic Health Sciences, Jackson, WY.
- #4664 **Poster Board Number F454**
Inhaled Vitamin D as a Prophylactic Against Environmental Lung Disease and Respiratory Infection. K. D. Schichlein, G. J. Smith, and I. Jaspers. University of North Carolina at Chapel Hill, Chapel Hill, NC.
- #4665 **Poster Board Number F455**
Mast Cells Modulate Early Pulmonary Inflammatory Responses to Amorphous Silica Nanoparticles. A. N. Reinert, M. Gibb, and J. M. Brown. University of Colorado, Anschutz Medical Campus, Aurora, CO.
- #4666 **Poster Board Number F456**
Tobacco-Flavored E-Cigarette Aerosol Suppresses Immune-Resolution Pathways and Initiates Early Lung Remodeling Following Sub-Chronic Inhalation Exposure. B. Dierolf, E. Kabir, C. Botero, S. Han, J. H. Park, A. Laskin, and T. Muthumalage. Purdue University, West Lafayette, IN.
- #4667 **Poster Board Number F457**
Silica content-dependent epithelial injury and fibroblast activation following engineered stone particle exposure in an in vitro co-culture alveolar model. E. H. Choy, A. Jiménez-Chávez, D. A. Herman, M. T. Kleinman, and A. De Vizcaya-Ruiz. University of California, Irvine, Irvine, CA.
- #4668 **Poster Board Number F458**
Toxicity of Algal Species Associated with Florida Freshwater Cyanobacterial Blooms To Human Small Airway Epithelial Cells. C. Fisher¹, T. Jilling¹, M. Garzon-Ramirez¹, K. Kroll², S. Bisesi², M. Carolina Ferreira², J. Moretto², D. Berthold², N. Denslow², D. Laughinghouse², and T. Sabo-Attwood¹. ¹University of South Carolina, Columbia, SC; and ²University of Florida, Gainesville, FL.

#4669	Poster Board Number F459 Pulmonary Pathophysiologic Response to Acute Inhalation of Chloropicrin. <i>S. A. Arriola, A. Arredondo, P. Venkatesh, D. X. Li, A. L. Castro, A. L. Lundberg, J. Manzano, M. C. Domanico, K. J. Bein, and L. S. Van Winkle.</i> University of California, Davis, Davis, CA.
#4670	Poster Board Number F460 Loss of Cytochrome P450 Reductase (CPR) in Alveolar Type II Cells and Hepatocytes Exacerbates Hyperoxic Lung Injury in Mice. <i>D. Narke, W. Jiang, and B. Moorthy.</i> Baylor College of Medicine, Houston, TX.
#4671	Poster Board Number F461 Transport of Airborne Asbestos Fibers in the Ambient Air: Effects of Fiber Type and Debris Binding on Fiber Dispersion. <i>M. Stevens¹, Q. Perry², B. Deckard², A. Singhal³, and D. Paustenbach².</i> ¹ TRC Strategic Health Sciences, Denver, CO; ² TRC Strategic Health Sciences, Jackson, WY; and ³ Environmental Health & Engineering, San Francisco, CA.
#4672	Poster Board Number F462 Fluorotelomer and Perfluoro Aldehyde Lung Cell Toxicity: Implications for Indoor Exposure to Volatile PFAS. <i>S. Horn, L. Tran, and Y. Lin.</i> University of California, Riverside, Riverside, CA. Sponsor: <i>J. Hoang</i>
#4673	Poster Board Number F463 Sex chromosome dosage as a mechanism of neonatal pulmonary oxygen toxicity. <i>R. M. Albert, M. E. Cantu Gutierrez, A. Cantu, A. Lee, H. Chang, and K. Lingappan.</i> Children's Hospital of Philadelphia, Philadelphia, PA.
#4674	Poster Board Number F464 Aerosolized Microcystin from Harmful Algal Blooms drives congener-dependent inflammation and cytotoxicity in human airway cells. <i>B. Timalisina¹, U. Shrestha¹, J. Breidenbach², B. French¹, S. T. Haller¹, and D. Kennedy¹.</i> ¹ The University of Toledo, Toledo, OH; and ² University of Toledo, Toledo, OH.
#4675	Poster Board Number F465 Hazard characterization of 2-ethyltoluene in rats and mice following whole-body inhalation exposure. <i>M. Fyle¹, G. Roberts¹, M. Stout¹, S. Patial¹, M. Cesta¹, C. Willson², K. Shockley¹, and K. Ryan¹.</i> ¹ NIEHS, Morrisville, NC; and ² Inotiv, Morrisville, NC.
#4676	Poster Board Number F466 6PPD drives acute airway inflammation and macrophage shifts toward remodeling. <i>D. Kim, G. Oh, J. Park, J. Choi, C. Park, J. Yuk, W. Jung, and M. Song.</i> Korea Institute of Toxicology, Jeongeup, Korea, Republic of. Sponsor: <i>J. Luyendyk</i>

Wednesday, March 25, 1:45 PM to 4:15 PM, Exhibit Hall B, Convention Center

PS Poster Session: Carcinogenesis II

Chair(s): Cassandra Winz, Rutgers, The State University of New Jersey.

Displayed: 9:00 AM–4:30 PM | Author Attended: 1:45 PM–4:15 PM

Abstract

#4677	Poster Board Number F468 N-acetyltransferase 2 acetylator phenotype modifies N-acetylation, DNA damage and oxidative stress responses of 2-amino-9H-pyrido[2,3-b]indole. <i>D. W. Hein, R. A. Salazar-González, and M. A. Doll.</i> University of Louisville, Louisville, KY.
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- #4678 **Poster Board Number F469**
Effect of lead on endothelial cell viability and junctional integrity and the potential protective role of dapagliflozin. N. Ramalingam, A. Tapaswi, S. Harris, and J. A. Colacino. University of Michigan, Ann Arbor, MI.
- #4679 **Poster Board Number F470**
Personalized ω -3 Fish Oil Clinical Trial Supplementation Decreases Pro-Inflammatory Adipokine Secretion and *In Vitro* Mammary Stem Cell Self-Renewal. E. M. Hill¹, J. A. Colacino¹, R. M. Esper², A. Sen², N. Polakowski¹, M. N. Aslam², Z. Djuric², M. S. Wicha², W. L. Smith², and D. E. Brenner². ¹University of Michigan Public Health, Ann Arbor, MI; and ²University of Michigan Medical School, Ann Arbor, MI.
- #4680 **Poster Board Number F471**
JNK Inhibition by HLN Disrupts Mitochondrial Proton Motive Force to Induce Ferroptotic Cell Death in Colorectal Cancer Therapy. M. A. Eltokhy¹, S. Gaikwad², M. Moore¹, and S. K. Srivastava¹. ¹TTUHSC, Abilene, TX; and ²Synvivo Inc., Huntsville, AL.
- #4682 **Poster Board Number F473**
Mechanisms of Hexavalent Chromium-Induced Carcinogenesis: DNA Double Strand Breaks and DNA Repair Inhibition in a Guinea Pig Model. I. Meaza¹, J. L. Wise², S. Diven¹, H. Lu¹, A. W. Brownell¹, J. Easley¹, J. C. Kouokam¹, J. P. Wise Jr.³, S. Vilee¹, J. T. Wise⁴, R. M. Wise¹, and J. P. Wise Sr.¹. ¹Wise Laboratory of Environmental and Genetic Toxicology, Department of Pharmacology and Toxicology, University of Louisville, Louisville, KY; ²Wise Laboratory of Liver and Environmental Health, Department of Pharmacology and Toxicology, University of Louisville, Louisville, KY; ³NeuroWise Laboratory of Environmental Toxicology, Department of Pharmacology and Experimental Therapeutics, University of Toledo, Toledo, OH; and ⁴Wise Laboratory of Nutritional Toxicology and Metabolism, Department of Human Nutrition, Food and Animal Sciences, University of Hawai'i at Mānoa, Honolulu, HI.
- #4683 **Poster Board Number F474**
KRAS Variant-Dependent Effects of PFOS and PFHxS Exposure in Pancreatic Ductal Adenocarcinoma Cells. S. E. Marks, K. M. Polemi, C. H. Williams, K. E. Sant, and J. D. Diedrich. Michigan State University, East Lansing, MI.
- #4684 **Poster Board Number F475**
A Mode of Action (MOA) and Human Relevance Framework (HRF) Analysis for Nasal Tumors Induced by Methyl Isothiocyanate (MITC) in Sprague Dawley Rats. M. Badding¹, B. B. Gollapudi², R. Reiss³, J. R. Harkema⁴, and S. M. Cohen⁵. ¹Biologics Consulting, Alexandria, VA; ²Toxicology Consultant, Midland, MI; ³Exponent, Alexandria, VA; ⁴Michigan State University, East Lansing, MI; and ⁵University of Nebraska Medical Center, Omaha, NE.
- #4685 **Poster Board Number F476**
Estrogenic Endocrine Disrupting Compounds Increase Cell Proliferation and Cancer Stemness in Estrogen Receptor Positive Breast Cancer Cells. C. Winz, E. Li, C. Xie, K. Lee, K. Boguszewski, S. Rohatagi, R. Hahn, R. Rancourt, P. Furmanski, and N. Suh. Rutgers University, Piscataway, NJ.
- #4686 **Poster Board Number F477**
Carcinogenicity of vinyl chloride monomer: A weight-of-evidence review by cancer sub-type. L. R. Lautermilch¹, H. L. Fairbanks¹, O. A. Adebambo¹, A. M. Urban², L. P. Marshall³, and M. L. Kreider¹. ¹Stantec, Pittsburgh, PA; ²Stantec (Formerly), San Francisco, CA; and ³Valeo Sciences, Pittsburgh, PA.
- #4687 **Poster Board Number F478**
A Quantitative Weight-of-Evidence Evaluation of Rodent Data Demonstrates Sufficient Evidence for a Lack of Carcinogenic Potential of Acetaminophen. M. Kovochich¹, M. D. Southall², S. Ejaz², S. K. Pitchaiyan³, N. Patel³, and D. G. Kougias¹. ¹K2 Toxicology and Integrated Risk Assessment, LLC, Las Vegas, NV; ²Kenvue Toxicology, Medical Clinical and Safety Sciences, Summit, NJ; and ³Kenvue Toxicology, Medical Clinical and Safety Sciences, Mumbai, India.

- #4688 **Poster Board Number** F479
Genotoxic and estrogenic exposures target distinct tissue structures in early breast carcinogenesis. J. E. Kay¹, J. T. McEneaney¹, R. Shakti¹, L. N. Vandenberg², and R. A. Rudel¹. ¹Silent Spring Institute, Newton, MA; and ²University of Massachusetts Amherst, Amherst, MA.
- #4689 **Poster Board Number** F480
Second Trimester Butanoate Metabolism in Pregnancy Linking Chemical Exposure to Incident Maternal Breast Cancer within 15 years. B. A. Cohn¹, P. M. Cirillo¹, N. Y. Krigbaum¹, S. Teeny², B. Minasenko², D. Wang², V. Tran², Y. Go², D. P. Jones², and X. Hu². ¹Public Health Institute, Oakland, CA; and ²Emory University, Atlanta, GA.
- #4690 **Poster Board Number** F481
Consideration of Implementation for Postmarketing Carcinogenicity Studies Based on a Retrospective Analysis of Approved New Drugs by U.S. FDA in the Past Ten Years. L. Zhou, J. Ma, L. Zhang, and S. Zhang. JOINN Laboratories, Suzhou, China.

Wednesday, March 25, 1:45 PM to 4:15 PM, Exhibit Hall B, Convention Center

PS Poster Session: Drugs of Abuse

Chair(s): Clara Chan, J.S. Held LLC.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 1:45 PM–4:15 PM

Abstract #

- #4691 **Poster Board Number** F482
Readdiction to deaddiction drug A case study on Buprenorphine Poisoning. R. Kaushik, and A. Pathak. All India Institute of Medical Sciences Bathinda Punjab, Bathinda, India.
- #4692 **Poster Board Number** F483
Evaluation of Illicit Drug Contaminants in Seized Cannabis in Arizona and California, 2023-2024. B. Andresano¹, T. M. Cahill¹, M. Grommes², and M. Leung¹. ¹Arizona State University, Glendale, AZ; and ²Desert Tox, LLC, Scottsdale, AZ.
- #4693 **Poster Board Number** F484
Developmental Toxicity of Minor Cannabinoids in Zebrafish. T. Shamblin¹, M. Burnett¹, C. Thornton², E. Carter¹, L. Seid², B. Dunaway², K. Martin², K. Willett², and N. Ashpole¹. ¹Mississippi State University, Mississippi State, MS; and ²University of Mississippi, University, MS.
- #4694 **Poster Board Number** F485
Use of transgenic *Caenorhabditis elegans* to investigate impacts of subcellular localization of CYP2E1 on alcohol and alcohol-related toxicity. H. C. Gonzalez¹, B. R. Deaton¹, T. T. Mendenhall¹, K. L. Gordon², and J. H. Hartman¹. ¹Medical University of South Carolina, Charleston, SC; and ²University of North Carolina at Chapel Hill, Chapel Hill, NC.

PS **Poster Session: Safety Assessment: Pharmaceutical—Drug Development II**

Chair(s): Xueqi Tang, Pfizer Inc.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 9:15 AM–11:45 AM

Abstract #

- #4695 **Poster Board Number** F486
Analysis of the use of two species in regulatory toxicology studies for molecules following ICH M3(R2). E. Passini, M. Blee, and F. Sewell. NC3Rs, London, United Kingdom.
- #4696 **Poster Board Number** F487
Pharmaceutical Safety Considerations for Cereblon-Recruiting Targeted Protein Degraders. R. Roberts¹, H. Garside¹, J. Sidaway¹, L. Jones², N. Vargesson³, and C. Targeted Protein Degradation Safety Committee⁴. ¹Apconix, Alderley Edge, United Kingdom; ²Dana-Farber Cancer Institute, Boston, MA; ³University of Aberdeen, Aberdeen, United Kingdom; and ⁴Health and Environmental Sciences Institute, Washington, DC.
- #4697 **Poster Board Number** F488
In Vitro Hemolytic Potential of Cyclodextrins: A Species Comparison. B. Morrison¹, Z. Dewald¹, R. Prince¹, A. Sen¹, M. Andracki¹, and J. Kapeghian². ¹Frontage Laboratories, Inc., Chicago, IL; and ²Preclinical Safety Associates, LLC, Reno, NV.
- #4698 **Poster Board Number** F489
Monitoring Muscle Fiber Toxicity with Transcriptional Biomarkers. A. A. Podtelezhnikov, K. Vlasakova, P. Lane, Z. Erdos, S. Pacchione, A. Aslamkhan, W. Glaab, K. Tanis, and R. Gonzalez. Merck and Co., Inc., West Point, PA.
- #4699 **Poster Board Number** F490
A 3D Heart-on-Chip For Cardiotoxicity Screening: Assessing Drug-Induced Alterations in Cardiac Electrophysiology and Contractility. C. Pernici¹, R. Visone¹, M. Mondini¹, E. Vermersch², M. Rasponi³, E. Ferrari¹, A. Garry², and P. Occhetta¹. ¹BiomimX Srl, Milan, Italy; ²Sanofi, Vitry, France; and ³Politecnico di Milano, Milan, Italy. Sponsor: C. Pernici, Safety Pharmacology Society
- #4700 **Poster Board Number** F491
Development of a Guinea Pig Telemetry Model for Early QT Prolongation Screening in Compliance with ICH S7B Best Practices. R. Fujii, K. Sampei, H. Saito, M. Yoshii, A. Kanno, A. Fujiwara, and T. Kadota. CMIC Pharma Science Co., Ltd., Yamanashi, Japan.
- #4701 **Poster Board Number** F492
Differentiating Pure hERG from Multi-Ion Channel Blockers Using a New Proarrhythmic Risk Biomarker: a Study Evaluating the Effects of QT-positive drugs on the JTpeak interval in Telemetered Dogs. J. Valentin¹, A. Betat², A. Delaunois¹, M. Loiseau², A. Maurin², C. Drieu La Rochelle², E. Martel³, and E. Delpy². ¹UCB Biopharma SRL, Braine-l'Alleud, Belgium; ²Biotrial Pharmacology, Rennes, France; and ³Boehringer Ingelheim Pharma, Biberach/Riss, Germany.
- #4702 **Poster Board Number** F493
Non-Drug Induced Spontaneous Convulsions in Different Nonclinical Laboratory Animals Used for Non-Clinical Drug Safety Evaluation. Z. Wang, and R. Zhang. WuXi AppTec (Suzhou) Co., Ltd., Suzhou, China.

- #4703 **Poster Board Number** F494
Mouse Bioassay of Bi-Tox Following a Single Intraperitoneal Injection. *R. M. Nandre¹, M. Pape², T. L. Horn², A. Maximov³, B. Davletov⁴, and P. S. Terse¹.* ¹NCATS, Rockville, MD; ²IITRI, Chicago, IL; ³Scripps Research, La Jolla, CA; and ⁴The University of Sheffield, Sheffield, United Kingdom.
- #4704 **Poster Board Number** F495
Preclinical Toxicology Assessment of VT-109, a Novel Agent for Treatment of Acute Respiratory Distress Syndrome. *A. Lyubimov, Y. Komarova, M. Lindeblad, A. Zakharov, R. Kwok, and K. Kabirov.* University of Illinois at Chicago, Chicago, IL.
- #4705 **Poster Board Number** F496
Risk Assessment of Lens Opacities Observed in a 39-Week Toxicity Study of SNG-30 in Dogs. *C. Nekomoto¹, E. Kashiwagi¹, K. Kin², Y. Asaoka¹, and T. Fukushima¹.* ¹Shionogi & Co., Ltd., Osaka, Japan; and ²Shionogi TechnoAdvance Research Co., Ltd, Osaka, Japan.
- #4706 **Poster Board Number** F497
The FORCE Platform does not Cause Anemia in Repeat-Dose Toxicity Studies in Cynomolgus Monkeys. *J. W. Davis II, L. O. Whiteley, D. Froim, A. Burdick, T. Picariello, C. A. Desjardins, T. Natoli, S. Zanotti, B. Basiri, R. Batra, and O. Beskrovnaya.* Dyne Therapeutics, Waltham, MA.
- #4707 **Poster Board Number** F498
Summary of three toxicity study of repeated intravenous infusion of exatecan derivative-ADCs to cynomolgus monkey. *J. Zou¹, L. Zhang², J. Ma², and Y. Zhang¹.* ¹JOINN Laboratories, Beijing, China; and ²JOINN Laboratories, Suzhou, China.
- #4708 **Poster Board Number** F499
Safety and Pharmacokinetic Evaluation of MAM01, a Monoclonal Antibody for Malaria infection caused by *Plasmodium falciparum*. *N. Sharma¹, U. Argikar¹, J. Huleatt¹, J. White², and M. Otieno¹.* ¹Gates Medical Research Institute, Cambridge, MA; and ²BioData Solutions, Lawrence, KS.
- #4709 **Poster Board Number** F500
Non-Clinical Development of the Monoclonal Antibody Zanidatamab for the Treatment of HER2-Expressing Cancers. *G. R. Paul¹, G. Rowse², R. Davies², N. Weissner², A. Kyakulaga³, K. Vaidya³, and D. Manca³.* ¹Jazz Pharmaceuticals, Cambridge, United Kingdom; ²Zymeworks, Vancouver, BC, Canada; and ³Jazz Pharmaceuticals, Palo Alto, CA. Sponsor: G. Paul, EUROTOX
- #4710 **Poster Board Number** F501
Standardizing Immunomodulatory Dosing of Sirolimus in Non-Human Primates for Gene Therapy: A Data-Driven Review. *J. Forget, A. Hunnerdose, N. Makori, and W. Davis.* Altasciences Preclinical Seattle, Seattle, WA.
- #4711 **Poster Board Number** F502
A Retrospective Study of Nonclinical Safety Data for siRNAs. *Y. Zhang, L. Guo, and R. Zhang.* WuXi AppTec (Suzhou) Co., Ltd., Suzhou, China.
- #4712 **Poster Board Number** F503
Acute Acceptable Exposure Levels for Impurities in an Infant Intrathecal Drug Product. *A. Jee, and J. Gould.* SafeBridge Consultants, Inc., New York, NY.
- #4713 **Poster Board Number** F504
Validation of Pharmacokinetic Simulation Predictions of Rofecoxib and Torcetrapib for Use as Positive Controls in Drug-Induced Hypertension Studies. *K. J. Sadko¹, A. VandenBussche¹, M. Bailie², and A. Lauver¹.* ¹Michigan State University, East Lansing, MI; and ²Certara Inc., Radnor, PA.
- #4714 **Poster Board Number** F505
Off target toxicity and efficacy testing of a novel stress reliever in a multi-organ microphysiological system. *R. Brighton, and C. McAleer.* Hesperos, Orlando, FL.

- #4715 **Poster Board Number** F506
Assessing the data landscape of extractables and leachables (E&L) and implementing strategies to fill data gaps. C. Johnson¹, A. Bassan², M. Pavan², D. Palazzotti², and K. Cross¹.
¹Instem, Conshohocken, PA; and ²Innovatune, Padova, Italy.
- #4716 **Poster Board Number** F507
Feasibility and Reversibility Study of HA Embolization in the Rabbit Auricular Artery.
S. An, and N. Liu. Wuxi Apptec (Suzhou) Co., Ltd., Jiangsu, China. Sponsor: R. Zhang

Wednesday, March 25, 9:15 AM to 11:45 AM, Exhibit Hall B, Convention Center

PS Poster Session: Immunotoxicity II

Chair(s): Lisa Miller, University of California Davis; and Sadiya Shaikh, University of Rochester.

Displayed: 9:00 AM–4:30 PM | **Author Attended:** 9:15 AM–11:45 AM

Abstract #

- #4717 **Poster Board Number** G508
Immunogenicity and Toxicity of rAAV Gene Therapies in Non-human Primates in Preclinical Safety Evaluation. C. Wu, L. Zhang, and J. Ma. JOINN Laboratories, Suzhou, China.
- #4718 **Poster Board Number** G509
Multiwalled Carbon Nanotubes Modulate Lipid Rafts Assembly and Hippo Signaling.
M. Thakur, and S. Batra. Southern University and A&M College, Baton Rouge, LA.
- #4719 **Poster Board Number** G510
Construction of an *in vitro* TDAR alternative model to mimic T-cell-dependent antibody response (TDAR) assay. K. Zhang^{1,2}, J. Chen^{1,2}, and L. Gong^{1,2,3}. ¹Nanjing University of Chinese Medicine, Nanjing, China; ²Shanghai Institute of Materia Medica, Chinese Academy of Sciences, Shanghai, China; and ³Zhongshan Institute for Drug Discovery, Shanghai Institute of Materia Medica, Chinese Academy of Sciences, Zhongshan, China.
- #4720 **Poster Board Number** G511
The effects of direct addition of lead(ii) acetate to a human *in vitro* model of hematopoiesis recapitulates exposure to lead *in utero*. K. N. Cross¹, J. W. Zagorski¹, N. E. Kaminski¹, A. Goodyke², E. Siegwald², and M. Cordoba Munoz². ¹Michigan State University, East Lansing, MI; and ²Corewell Health, Grand Rapids, MI.
- #4721 **Poster Board Number** G512
 Δ^9 -tetrahydrocannabinol (THC) and cannabidiol (CBD) attenuate CD16⁺ monocyte-induced inflammatory responses by astrocytes in a primary human co-culture system. S. Sermet^{1,2}, R. Crawford^{1,3}, and N. E. Kaminski^{1,2,3}. ¹Michigan State University, East Lansing, MI; ²Department of Pharmacology and Toxicology, East Lansing, MI; and ³Institute for Integrative Toxicology, East Lansing, MI.
- #4722 **Poster Board Number** G513
Glucocorticoid drugs suppress neutrophil control of the opportunistic pathogen *Aspergillus fumigatus*. S. U. Thrikawala¹, and E. E. Rosowski². ¹Eastern Washington University, Cheney, WA; and ²Clemson University, Clemson, SC. Sponsor: M. Bondesson

- #4723 **Poster Board Number G514**
Development of an *in vitro* human T-cell activation assay to evaluate the potential hypersensitivity to small molecule drug candidates. *M. O. Ogeese, B. Bhatt, B. Vega, A. Varone, J. J. Monroe, M. A. Oropallo, and R. J. Gonzalez.* Department of Investigative Toxicology, Nonclinical Drug Safety, Merck & Co., Inc., Rahway, NJ.
- #4724 **Poster Board Number G515**
Investigating Potential Immunotoxicity of Understudied PFAS Found In North Carolina Waters (perfluoro-3,5,7,9-butaaoxadecanoic acid; perfluoro-3,6-dioxa-4-methyl-7-octensulfonic acid; 2-[difluoro(trifluoromethoxy)methoxy]-2,2-difluoroacetic acid). *M. Carroll¹, T. Woodlief², A. Ahmed², and J. DeWitt¹.* ¹Oregon State University, Corvallis, OR; and ²East Carolina University, Greenville, NC.
- #4725 **Poster Board Number G516**
Effects of indium tin oxide nanoparticles on human T helper cells: mitochondrial dysfunction and suppression of cytokine gene expressions. *Y. Nishimura¹, N. Maruo², M. Eitoku², K. Kobiro³, A. Kamezaki¹, T. Ito¹, and N. Suganuma².* ¹Kawasaki Medical School, Kurashiki, Japan; ²Kochi Medical School, Kochi, Japan; and ³Kochi University of Technology, Kochi, Japan.
- #4726 **Poster Board Number G517**
Preclinical De-Risking of Cell Therapy Products. *B. Quist¹, H. Leonard², L. Francois¹, M. Hazenoot¹, M. Hiller¹, R. Shea³, L. Schewitz-Bowers², D. Rocca², R. Nunan², L. Brackenbury², M. Aspinall O'Dea³, R. Redis¹, S. de Munnik¹, G. Moiset¹, and P. I. Racz¹.* ¹Charles River Laboratories, Leiden, Netherlands; ²Charles River Laboratories, Portishead, United Kingdom; and ³Charles River Laboratories, High Peak, United Kingdom.
- #4727 **Poster Board Number G518**
Characterizing Effects of Non-Toxic Aryl Hydrocarbon Receptor (AHR) Ligands on IgG1 antibody production in Human Peripheral Blood Mononuclear Cells. *A. Deb, A. Venugopalan, and B. Kaplan.* Mississippi State University, Mississippi State, MS.
- #4728 **Poster Board Number G519**
Investigating how per- and polyfluoroalkyl substances (PFAS) affect neutrophil function. *V. E. Resh, and J. A. Yoder.* North Carolina State University, Raleigh, NC.
- #4729 **Poster Board Number G520**
Development of rat immunogenicity assays to evaluate the immunostimulatory potential of peptides prior to nonclinical safety studies. *B. A. Vega, B. Bhatt, N. Li, M. A. Oropallo, and R. J. Gonzalez.* Merck & Co., Inc., West Point, PA.
- #4730 **Poster Board Number G521**
Antimicrobial cetylpyridinium chloride suppresses mast cell degranulation and cytokine production by targeting tyrosine phosphorylation of Syk kinase and key substrates Linker for Activation of T-Cells (LAT) and Vav1. *M. K. Lorenger, B. Obeng, E. R. Morrison, D. J. Wagner, E. Ledue, and J. A. Gosse.* University of Maine, Orono, ME.
- #4731 **Poster Board Number G522**
Effects of arsenic, cadmium, and lead on macrophage cytokine production. *L. Y. Middleton, M. R. Rea, A. Tapaswi, J. Gbadegoye, E. Shah, S. M. Harris, and J. A. Colacino.* University of Michigan, Ann Arbor, MI.
- #4732 **Poster Board Number G523**
Evaluating the immunotoxicity of a bispecific antibody (glofitamab) using an *ex vivo* circulating human whole blood assay. *H. Harlin Laven¹, L. Nilsson¹, M. Pettersson¹, G. Törnqvist¹, E. Fletcher¹, S. Ponandai-Srinivasan¹, and S. Mangsbo².* ¹Immuneed, 753 41 Uppsala, Sweden; and ²Uppsala University, 753 10 Uppsala, Sweden. Sponsor: S. Mangsbo, American Association for Cancer Research

#4733	Poster Board Number G524 Detection of circulating immune complexes as a biomarker of immunogenicity. R. B. Johnson, B. Vega, M. A. Oropallo, and R. J. Gonzalez. Merck, West Point, PA.
#4734	Poster Board Number G525 Differential activation of canonical and non-canonical IL-1β maturation pathways in monocyte subsets in the context of HIV. B. M. Finn ^{1,2,3} , R. B. Crawford ^{1,3} , P. Gulick ^{1,4} , and N. E. Kaminski ^{1,2,5,3} . ¹ Michigan State University, East Lansing, MI; ² Department of Pharmacology and Toxicology, East Lansing, MI; ³ Institute for Integrative Toxicology, East Lansing, MI; ⁴ Department of Osteopathic Medicine, East Lansing, MI; and ⁵ Center for Research on Ingredient Safety, East Lansing, MI.
#4735	Poster Board Number G526 The effects of BPA on murine IL-17A regulation in naïve CD4⁺ T cells <i>in vitro</i>. L. K. Blevins ^{1,2} , R. B. Crawford ^{1,2} , and N. E. Kaminski ^{1,2,3} . ¹ Michigan State University, East Lansing, MI; ² Institute for Integrative Toxicology, East Lansing, MI; and ³ Department of Pharmacology and Toxicology, East Lansing, MI.
#4736	Poster Board Number G527 Developmental Immunotoxicity of Five Understudied Per and Polyfluoroalkyl Substances (PFAS) that Contaminate Drinking Water. S. Streeter, M. Carroll, E. Hass, and J. DeWitt. Oregon State University, Corvallis, OR.
#4737	Poster Board Number G528 Immune Cell Clearance and Acetaminophen Induced Acute Liver Failure. D. K. Chavez, A. Venkatraman, H. Jaeschke, and A. Ramachandran. University of Kansas Medical Center, Kansas City, KS.
#4738	Poster Board Number G529 Metabolic Reprogramming of CD4⁺ T Cells in Autoimmune-Prone Mice Exposed to Trichloroethylene. H. Wondra. University of New Mexico, Albuquerque, NM.
#4739	Poster Board Number G530 Histone Variant-Specific Epigenetic Remodeling in Activated CD4⁺ T Cells Following Exposure to a Trichloroethylene Metabolite. L. V. Santos-Medina ¹ , S. R. Choudhury ² , and S. J. Blossom ¹ . ¹ University of New Mexico Health Sciences Center, Albuquerque, NM; and ² University of Arkansas for Medical Sciences, Little Rock, AR.
#4740	Poster Board Number G531 Short Libby Amphibole fibers induce pulmonary inflammation in mice up to 21 days post-exposure. K. M. Serve, U. Adhikari, L. McOmber, S. Madrigal Nunez, J. Nielson, D. Stevens, V. Wallace, and D. Pradhan. Idaho State University, Pocatello, ID.
#4741	Poster Board Number G532 Improved cryopreservation of human Precision-Cut Lung Slices supports tissue integrity. H. Obernolte ¹ , K. Grieger ¹ , S. Metzger ² , V. Neuhaus ¹ , F. Ihmig ² , F. Sonntag ³ , F. Schmieder ³ , J. Neubauer ² , I. Meiser ² , and K. Sewald ¹ . ¹ Fraunhofer Institute for Toxicology and Experimental Medicine ITEM, Hannover, Germany; ² Fraunhofer Institute for Biomedical Engineering IBMT, Sulzbach, Germany; and ³ Fraunhofer Institute for Material and Beam Technology IWS, Dresden, Germany. Sponsor: S. Escher
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#4743	Poster Board Number G534 Airway Antimicrobial Proteins (AMPs) Orchestrate Defense Against Environmental Fungal Exposures. V. Romero ¹ , R. Y. Chen ¹ , M. Cai ¹ , L. Zhu ¹ , H. Mou ² , H. Ding ¹ , Y. Chen ¹ , and Y. P. Di ³ . ¹ University of Arizona, Tucson, AZ; ² Massachusetts General Hospital, Harvard Medical School, Boston, MA; and ³ Florida International University, Port St Lucie, FL.

- #4744 **Poster Board Number** G535
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- #4745 **Poster Board Number** G536
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- #4746 **Poster Board Number** G537
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- #4747 **Poster Board Number** G538
Redefining Developmental Immunotoxicity Testing: Transitioning From Animal Models to Human-Relevant Frameworks. F. C. Sillé. Center for Alternatives to Animal Testing (CAAT), Department of Environmental Health and Engineering, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD.
- #4748 **Poster Board Number** G539
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