

SOT Mixtures Specialty Section Newsletter

Volume 10

September 2019

President's Message

Danielle Carlin, PhD, DABT

Mixtures SS President
NIEHS/DERT



Dear Members,

It's been a busy year for the Mixtures Specialty Section (MixSS)!

Please join me in welcoming the new MixSS Officers for 2019-2020 and thanking our outgoing officers!

Everyone has done a great job in leading the MixSS and the section will be in great hands in the coming year. In case you missed the 2019 SOT meeting or reception, not to worry, I've highlighted our 2019 meeting sessions and award winners in this issue!

I look forward to seeing you next year at SOT in

Anaheim, CA! The Program has not been released yet, but when it becomes available, make sure that you look for the Mixtures-focused sessions, as well as the day and time of our reception, which is guaranteed to be a real "mix" of fun and networking! I also wanted to remind our members that one of the best ways to introduce mixtures concepts to a wider audience is to continue submitting your high-quality mixtures session proposals to future SOT meetings.

If you have ideas for how to expand membership, increase visibility, or update us on upcoming mixtures events, please do not hesitate to share them with us!

Sincerely,

Danielle Carlin

Flash Mentoring at 2019 SOT Mixtures SS Reception!

Due to popular demand from past receptions, our 2019 Annual Meeting Mixtures Specialty Section Reception hosted a flash mentoring session.

Here is how it worked:

- We invited our more experienced MixSS members to spread out around the room (1 - 2 experts per table).
- We then invited trainees and junior members to fill seats at the tables.
- When the 10 min timer went off, the trainees rotated to the next table
- Results: connections were made!

We would like to thank Dr. Nigel Walker (NTP/NIEHS; pictured below) for emceeding this session and hope that everyone had a great time networking! Please let us know if you have any networking ideas for our 2020 Reception!



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2019 SOT Annual Meeting

Mixtures at SOT



Continuing Education Course: Handling Uncertainties in Evaluating Mixtures: What's the Difference between a "Similar" and a "Sufficiently Similar" Mixture?

Session chairs: Suzanne Fitzpatrick, US FDA, College Park, MD; and Mansi Krishan, Danone North America, Louisville, CO.

Speakers: Glenn Rice (USEPA) and Amy Roe (Procter and Gamble)

Continuing Education Course: Complex Mixtures and UVCBs: Analysis, Testing, and Risk Assessment

Session chairs: Cynthia Rider, NIEHS/NTP, Research Triangle Park, NC; and Mansi Krishan, Danone North America, Louisville, CO

Speakers: Brenna Flannery (US FDA), Timothy Baker (Procter & Gamble Company), Joshua Kellogg (University of North Carolina at Greensboro) and Cynthia Rider (NIEHS/NTP)

Symposium Session: Patterns of Co-exposure and Its Implications for Understanding the Health Effects of Mixtures

Session chairs: Thomas Webster, Boston University School of Public Health, Boston, MA; and Rogelio Tornero-Velez, US EPA, Research Triangle Park, NC.

Speakers: T. Webster (Boston University School of Public Health), R. Tornero-Velez (US EPA), D. Kapraun (US EPA), J. Wambaugh (US EPA), R. Zaleski (ExxonMobil Biomedical Sciences, Inc.), C. Gennings (Icahn School of Medicine at Mount Sinai) and M. DeVito (NIEHS/NTP)

Informational Session: Electronic Waste: An Evolving Global Health Concern and Risk Assessment Challenge

Session chairs: Babasaheb (Bob) R. Sonawane, TRACS, LLC, North Potomac, MD; and Michelle Heacock, NIEHS, Research Triangle Park, NC

Speakers: B. Sonawane (TRACS, LLC), B. Trottier (NIEHS), P. Chakraborty (SRM Institute of Science and Technology), L. S. Birnbaum (NIEHS/NTP), B. A. Fowler (Emory University School of Public Health)

Workshop Session: Applying Systems Biology Approaches to Understand the Joint Action of Chemical and Nonchemical Stressors

Session chairs: Cynthia V. Rider, NIEHS/NTP, Research Triangle Park, NC; and Julia E. Rager, University of North Carolina at Chapel Hill, Chapel Hill, NC.

Speakers: C. Rider (NIEHS), J. E. Rager (University of North Carolina at Chapel Hill), J. M. Conley (US EPA/ORD), D. J. Carlin (NIEHS), A. Lampen (BfR), C. V. Rider (NIEHS/NTP)

Poster Session: Mixtures, Poster Board #: P517–P531
Abstract #: 3048–3062 Exhibit Hall

2019 MixSS Award Winners

Best Mixtures Abstract: Jennifer Schlezinger (Boston University), Title: Predicting the Activation of the Androgen Receptor by Mixtures of Ligands Using Generalized Concentration Addition, Abstract No. 3060, Board No. P529 (top picture below).

Graduate Student Award: Emily Brehm (University of Illinois-Champaign), Title: Prenatal exposure to a phthalate mixture alters sex steroid, peptide, and gonadotropin hormones in the F1, F2, and F3 generations of female mice, Abstract No. 1494, Board No. P609 (right picture below).

Post-doctoral Award: Courtney Roper (Oregon State University), Title: PM2.5 Characterization in Biomass and Non-biomass Burning Households, Abstract No. 1110, Board No. P131 (bottom picture below).



Top 5 Abstracts (listed alphabetically)

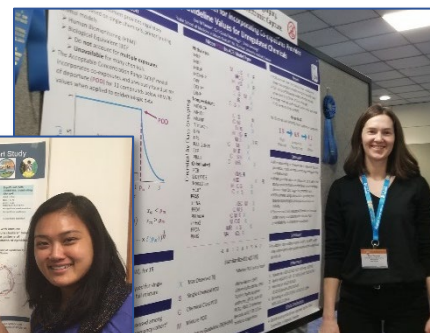
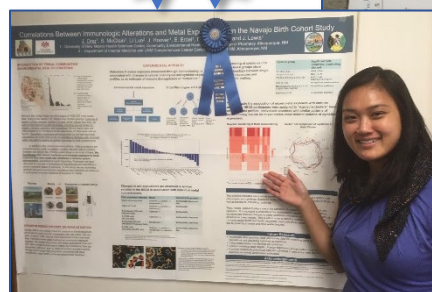
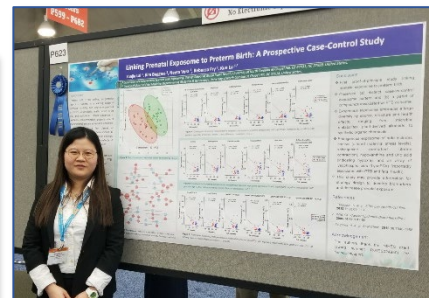
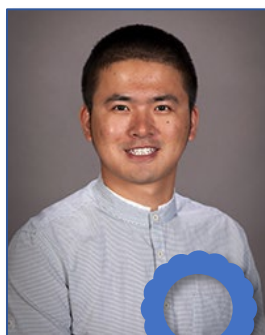
Zunwei Chen (Texas A & M University), Title: A Multi-Tissue Organotypic Human In Vitro Model for Rapid Hazard Identification of Environmental Chemicals and Mixtures, Abstract No. 1074, Platform Session (pictured top left)

Yunjia Lai (University of North Carolina-Chapel Hill), Title: Amniotic Fluid Exposomics Identifies Novel Prenatal Exposures and Metabolic Signatures in Relation to Preterm Birth: A Prospective Case-Control Study. Abstract No. 3082, Board No. P623. (pictured top right)

Jennifer Ong (University of New Mexico), Title: Cytokine Expression Profiles and Metals Exposure Cluster Analysis within a Population Study, Abstract No. 2385, Board No. P797 (pictured bottom left)

Jennifer Schlezinger (Boston University), Title: Predicting the Activation of the Androgen Receptor by Mixtures of Ligands Using Generalized Concentration Addition, Abstract No. 3060, Board No. P529. (picture on page 2)

Eva Tanner (Icahn School of Medicine at Mount Sinai), Title: A Novel Risk Assessment Model for Incorporating Co-Exposures Provides Preliminary Guideline Values for Unregulated Chemicals, Abstract No. 3053, Board No. P522 (pictured bottom right)



Website: <http://www.cvent.com/events/total-exposure-health-2018/event-summary-f5ae5c586a414ceb84a7fb594789dd7b.aspx>

Workshop: Converging on Cancer

Date: April 29-30, 2019

Location: William Jefferson Clinton East Building, U.S. Environmental Protection Agency, Washington, D.C.

Website:

<https://ntp.niehs.nih.gov/events/webinars-workshops/2019/coc/index.html>

Workshop: Powering Research Through Innovative Methods for Mixtures in Epidemiology (PRIME) Program Meeting

Date: April 29-30, 2019

Location: NIEHS Main Campus, RTP, NC

Website:

https://www.niehs.nih.gov/news/events/pastmtg/2019/prime_2019/index.cfm

Workshop: Environmental Mixtures Workshop at Columbia University's Mailman School of Public Health

Date: August 19-20, 2019

Location: Columbia Mailman School of Public Health, 722 W. 168th Street, Allan Rosenfield Building 8th Floor Auditorium, New York City, NY

Website: <https://www.mailman.columbia.edu/research/precision-prevention/workshop-analyzing-mixtures-environmental-health-studies>

2018-2019 Webinars and Mixtures related workshops/conferences:

SOT RASS/MixSS Webinars for 2019:

<https://www.toxicology.org/groups/ss/RASS/downloads.asp>

Your 2019-2020 Officers!

Dr. Danielle Carlin (President; top left)

Dr. Tom Webster (Vice President; top center)

Dr. Mansi Krishan (Vice President-Elect; top right)

Dr. Esra Mutlu (Secretary-Treasurer; center left)

Dr. Chris Gennings (Past President; center)

Dr. Jennifer Schlezinger (Senior Councilor; center right)

Dr. Marie Bourgeois (Junior Councilor; bottom left)

Dr. Troy Hubbard (PDA Representative; bottom center)

Ms. Krisa Camargo (GSLC Representative; bottom right)



Thank You to our 2018-2019 Officers!

Dr. Chris Gennings (President)

Dr. Danielle Carlin (Vice President)

Dr. Tom Webster (Vice President-Elect)

Dr. Emily Madden (Secretary-Treasurer)

Dr. Cynthia Rider (Past President)

Dr. Bethany Hannas (Senior Councilor)

Dr. Jennifer Schlezinger (Junior Councilor)

Dr. Courtney Roper (PDA Representative)

Ms. Dami Adebambo (GSLC Representative)



Dr. Cynthia Rider (left) with Dr. Chris Gennings (right)



SEE YOU NEXT YEAR AT SOT!!!!