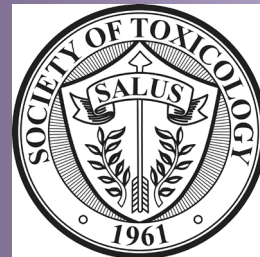


IMMUNOTOXICOLOGY

Specialty Section

Special Edition



2020-2021 Executive Committee

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The Immunotoxicology Specialty Section (ITSS) Newsletter is published twice a year (Summer and Winter). If you would like to share an item of interest with members of the ITSS, please send it to the Communications Committee Chair. All comments and suggestions are welcome.

Alessandro Venosa
alessandro.venosa@pharm.utah.edu

Thea Golden
goldent@pennmedicine.upenn.edu

Alexa Murray
Alexa.Murray18@gmail.com

President's Message

Dear ITSS members,

This year is a different year, for the first time in its history SOT had to cancel the annual congress due to the pandemic. We have not had the opportunity to meet in person in Anaheim, but currently ITSS is trying to organize itself to prepare virtual meetings. In the meantime, we should get ready for SOT 2021 in Orlando. ITSS has always been a very active scientific community that has provided many strong SOT proposals in the area of immunotoxicology and chemical allergy. We have had a high success rate over the last years. So, we kindly invite you to send Florence Burleson (fburleson@brt-labs.com), Chair of the 2021 Program Committee, your scientific proposals for the upcoming congress. To enable the Program Committee to evaluate all proposals, we would like to receive them before the 29th of May 2020. The deadline for submission to SOT is June 12th, 2020.

We would also like to acknowledge the 2020 ITSS Award winners (pg. 5-8)! Congratulations!

In this difficult period where we are facing an invisible enemy, we must think positive and look forward.

We wish you the best and hope to see you soon.

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Submit a Proposal for SOT 2021!

Please contribute a program proposal for the SOT 2021 Annual Meeting!

Dear members of the ITSS,

We need your contributions and new ideas for attractive and winning roundtables, workshops, symposia, and continuing education programs! Your active participation in the Specialty Section is vital for the section itself.

In addition to the canonical 165 minute sessions, the upcoming meeting will host 90 minute sessions followed by 30-minute breaks to allow for individuals to follow up with speakers or networking with session attendees. Detailed directions for developing and submitting proposals are available at <https://www.toxicology.org/events/am/AM2021/submitting-proposals.asp>. In order for your proposal to be reviewed for endorsement by ITSS, please submit your title and abstract to Florence Burleson (fburleson@brt-labs.com) by Friday, May 29th, 2020. This will allow the ITSS Program Review Committee time to provide feedback and acquire ITSS endorsement prior to the SOT deadline of Friday, June 12th, 2020 at 11:59 PM. For additional questions, we are glad to help you.

ADVICE: please consider the following steps as you prepare your proposals:

- The session presentations should be designed to provide a cohesive thread throughout the session.
- The session should address a topical issue of broad general relevance, rather than a narrow topic of high interest to fewer scientists.
- The session presenters should reflect a diversity of opinions/backgrounds to reflect perspectives from industry/regulators/academics.
- CE courses have a better chance of acceptance, as do roundtables – think about these formats as a possibility.

Don't miss the opportunity to contribute to a program by submitting your scientific proposal! Thank you in advance for your continuous support and contribution. We look forward to receiving your proposal!

Special Request to Develop a COVID-19 Proposal

We would like to specifically address immunotoxicology related research in COVID-19 at the SOT 2021 meeting. If you are currently researching COVID-19 and interested in sharing your research in the spring, please contact Thea Golden (goldent@pennmedicine.upenn.edu) or Alexa Murray (Alexa.Murray18@gmail.com) to discuss potential involvement in a planned proposal by May 25th.



In these virtual times, SOT has prepared a virtual meeting that includes many exciting scientific sessions, CE courses and ePosters. Many events are scheduled over the next month and posters are available for viewing through May 31, 2020. We would like to sincerely thank the 2020 SOT Virtual Meeting Supporters and those who prepared the virtual meeting for adapting to our current situation and creating this unique way to interact as a society. Please consider virtually attending the following ITSS sponsored events.

Symposia

Wednesday, May 27, 1:00 PM to 3:45 PM (EDT)

In Vitro Microphysiological Systems: Developing Tools to Evaluate Immunotoxicity of Drug Candidates

Chairperson(s): ***Nikki Marshall and Anthony Bahinski***

- Introduction. ***Nikki Marshall***
- Human Bone Marrow Dysfunction Recapitulated In Vitro Using Organ Chip Technology. ***David Chou***
- A Foreign Body Response-on-a-Chip Platform. ***Ali Khademhosseini***
- Application of Immunocompetent Microphysiological Systems in Drug Development. ***Reyk Horland***
- In Vitro Microphysiological Systems: Advancing Regulatory Science through Innovation. ***Suzanne Fitzpatrick***

Thursday, June 25, 6:00 PM to 8:45 PM (EDT)

Can we Predict and Manage Immune-Related Adverse Events Associated with Cancer Immunotherapy?

Chairperson(s): ***Yasuo Yoshioka and Peyton Myers***

- Introduction. ***Yasuo Yoshioka***
- Mode of Action of Checkpoint Inhibitors, Immunologic Biomarkers, and Clinical Responses. ***Helen Haggerty***
- Autoantibodies as Biomarkers for Predicting Risk to Develop Autoimmune Diseases Following Treatment with Immune Checkpoint Inhibitors. ***Minoru Satoh***
- Immune-Related Adverse Events Induced by T Cell Adoptive Immunotherapy Using Genetically Engineered TCR-T Cells. ***Hiroaki Ikeda***
- Nonclinical Paths for Immunomodulators: Current Challenges to Evaluate the Safety of Immune Checkpoint Inhibitors and Combination Therapies. ***David McMillan***

Continuing Education

Friday, May 29, 11:00 AM to 2:30 PM (EDT)

Timing is Everything: Developmental Exposure Alters the Path of Immune Cell Maturation and Function

Chairperson(s): **Alessandro Venosa and Jamie DeWitt**

- Introduction to the Course and Overview of Developmental Immunotoxicity. **Alessandro Venosa**
- Development of the Immune System across Phylogenetic Classes. **Mark Collinge**
- Design and Implementation of Studies to Detect Developmental Immunotoxicity in Young and Adult Organisms. **Victor Johnson**
- Zebrafish as a Model for Developmental Immunotoxicity. **Jessica Plavicki**
- Early-Life Exposure and Later-Life Disease. **Jamie DeWitt**
- Regulatory Impacts of Developmental Immunotoxicity. **Ellen Hessel**

Workshops

Tuesday, June 30, 12:00 PM to 2:45 PM (EDT)

Immune-Mediated Adverse Drug Reactions: State-of-the-Art Learnings from Preclinical and Clinical Drug Development

Chairperson(s): **Amy Sharma and James Monroe**

- Introduction. **James Monroe**
- The Chemical Basis of Drug Hypersensitivity and Development of In Vitro Assays to Predict Intrinsic Immunogenicity. **Dean Naisbitt**
- Bioactivation of Drugs in the Skin: Examining the Concepts of Necessity and Sufficiency in Drug-Induced Dermal Toxicity through Metabolism, Immunology, and Host-Dependent Factors. **Amy Sharma**
- Role of Innate Immune System in Adaptive Immune Mediated Idiosyncratic Drug Reactions. **Jack Uetrecht**
- Animal Models for HLA-Linked Adverse Drug Reactions. **Michael Norcross**
- Understanding Autoimmunopathies from Immunotherapy: Biomarkers and Mechanisms. **Justin Balko**
- Immune-Mediated Adverse Events in Preclinical Toxicology Species: Role of Immune Complexes Formed from Therapeutic Protein-Antibody Complexes. **Vibha Jawa**

2020 ITSS Award Winners:

Vos Award for Lifetime Career Achievement in Immunotoxicology

The *Vos Award for Lifetime Career Achievement in Immunotoxicology* is presented to an individual in recognition of career achievements in advancing the field of immunotoxicology through service, leadership, and scientific contributions.



Dr. Marc Pallardy

Université Paris-Sud

Outstanding Senior Investigator Award

The *Outstanding Senior Investigator Award* is presented to an individual whose work has made significant contributions to the field of Immunotoxicology. This award is for scientists in academia, industry, or those who have had an impact on regulatory issues, and has distinguished themselves as leaders in immunotoxicology.



Dr. Gary Burleson

Burleson Research Technologies, Inc.

2020 ITSS Award Winners:

Mitzi and Prakash Nagarkatti Research Excellence in Immunotoxicology Travel Awards

Dr. Valentina Galbiati

Università degli Studi di Milano



Sarah Attreed

John Hopkins University



Health and Environmental Sciences Institute (HESI) Immunotoxicology Young Investigator Travel Award



The *HESI Young Investigator Travel Award* is awarded to a young investigator who is within 5 years of receiving a PhD and has demonstrated significant contributions to immunotoxicology.

Dr. Thea Golden

University of Pennsylvania

2020 ITSS Award Winners:

Best Paper of the Year Award

**A.R. Henriquez¹, S.J. Snow,
M.C. Schladweiler, C.N. Miller,
J.A. Dye, A.D. Ledbetter, M.M.
Hargrove, J.E. Richards, U.P.
Kodavanti²**

¹U.S. Department of Energy

²U.S. Environmental Protection
Agency

Exacerbation of Ozone-Induced Pulmonary
and Systemic Effects by β_2 -adrenergic
and/or Glucocorticoid Receptor Agonist/S

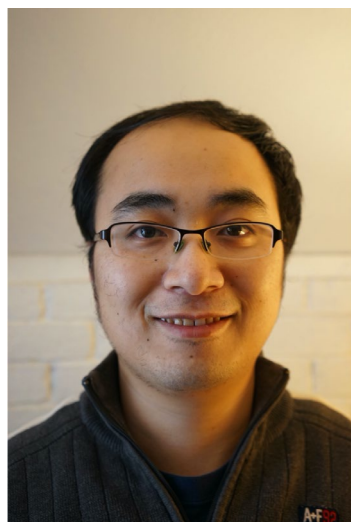


Best Presentation by a Postdoctoral Trainee Award

Dr. Yining Jin

Michigan State University

Effects of Two Food Additives, 3-HT and
BHT, on OVA-Elicited Food Allergy in Mice



Dr. Hui Wang

University of Texas Medical Branch
at Galveston

Delineation of the Role of Gut Microbiome
in Trichloroethene-Mediated Autoimmunity

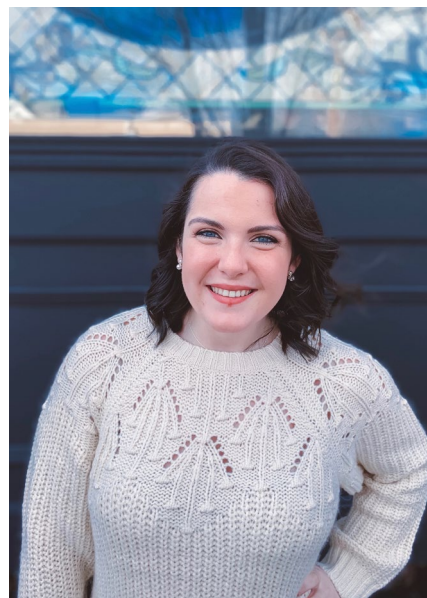


Best Presentation by a Student Award

Melissa Wilkinson

Rutgers, The State University of New Jersey

OANO₂ Increases the Likelihood of Survival and Resolution Signaling in Response to Bleomycin-Mediated Lung Injury



Cassandra Houser

University of Rochester

Aryl Hydrocarbon Receptor Regulation of T Follicular Helper Cells



**Congratulations to all of our winners
for the outstanding work!**

2020 ITSS Committee List:

Dear members,

The ITSS Officers would like to take a moment to **acknowledge and thank** all the members who Chaired and volunteered help with the Awards, Education, Program, as well as VOS, HESI, Nagarkatti and OSI.

The success of these endeavors is all because of your commitment!

Thank you for your involvement!

Awards Committee:

Jennifer Wheeler (Chair)
Tina Satterwhite
Berran Yucesoy
Jean Sathish
David McMillan
Yining Jin
Joanna Matheson
Anthony Franchini
Michael McCabe
Michael Whitekus

Education Committee

Florence Burleson (Chair)
Alessandro Venosa
Alexa Murray
Cody Smith
Brian Zhou
Travis Gulledge

Program Committee

Mark Collinge (Chair)
Ankit Shah
Berran Yucesoy
Joanna Matheson
Jessica Lynch
Peer Karmus
Vic Johnson

VOS, HESI, Nagarkatti and OSI

Emanuela Corsini (Chair)
Mark Collinge
Florence Burleson
Jamie DeWitt
Vic Johnson
Peyton Myers

Please consider being a part of the Awards Committee for the 2021 Annual Meeting. If interested, please contact Thea Golden (goldent@pennmedicine.upenn.edu) or Alexa Murray (Alexa.Murray18@gmail.com). Thank you!!