

NAME OF SPECIALTY SECTION Immunotoxicology

**ANNUAL REPORT: 2017-2018**

May 1, 2017 to April 30, 2018

**I. Officers/Committees:**

<u>Officers</u>	<u>2016-2017</u>	<u>2017-2018</u>
President:	Laine Peyton Myers	Victor J Johnson
Vice President:	Victor J Johnson	Jamie C DeWitt
Vice President-Elect:	Jamie C DeWitt	Emanuela Corsini
Secretary/Treasurer:	Kristen A Mitchell	Stacey E Anderson
Past President	Rafael A Ponce	Laine Peyton Myers
Councilors:	Haley Neff-LaFord	Rodney Prell
	Rodney Prell	Jessica L Lynch
PDA Representative:	Angela M Groves	Angela Groves
GSLC Representative:	Jiajun Zhou	Jiajun Zhou

**Committees:**

**Awards Committee**

Chair: Rodney Prell  
Dave Shepherd  
Herve LeBrec  
Leigh Ann Burns  
Robert Li  
Gautham Rao  
Rafael Ponce  
Berran Yucesoy  
Jessica Lynch

**Communication and Membership Committee**

Chair: Jessica Lynch  
Stefanie Burleson  
Angela Groves  
Brian Zhou  
Rachel Nguyen

**Education Committee**

Chair: Emanuela Corsini  
Alaeddin Abukabda  
Zinah Al-Ghezi  
Kamashwar Singh  
Narendra Singh  
Kathryn Miranda

Hannah Yan  
Wurood Neamah  
Haider Alrafas  
Amira Mohammed  
Hasan Alghetua  
Siham Abdulla

### **Program Committee**

Chair: Jamie DeWitt  
Emanuela Corsini  
Sarah Blossom  
Mark Collinge  
M. Firoze Khan  
Robert Li  
Joanna Matheson  
Michelle Miller  
Gautham Rao  
Berran Yucesoy  
Victor Johnson

### **Scientific Advisory Committee**

Chair: Peyton Myers  
Victor Johnson  
Jamie DeWitt  
Emanuela Corsini  
Dori Germolec  
Gary Burleson  
Jean Regal  
Rodney Dietert

## **II. Activities:**

**2018 SOT Annual Meeting Reception** was held in San Antonio, Texas on Tuesday March 12, 2018 from 6:00 – 7:30pm.

Approximately 175 people were in attendance.

Dr. Vic Johnson called the meeting to order at approximately 6:45 PM on 13 Mar 18.

Business Meeting Speaker: N/A

Meeting Minutes: See **Attachment 1** – Slides from business meeting

### **Awards:**

*Best Presentation by a Student*

- 1<sup>st</sup> Place
  - Catherine G. Burke, “Developmental Activation of the Aryl Hydrocarbon Receptor (AHR) Durably Alters the Responsive Capacity of CD4+ T Cells”, University of Rochester, Rochester, NY.
- 2<sup>nd</sup> place

- Michael D. Rizzo, “HIV-Infected Cannabis Users Display Lower Levels of Circulating CD16+ Monocytes and Plasma IP-10 Compared to Non-Using HIV-Infected Individuals”, Michigan State University, East Lansing, MI.
- 3rd<sup>d</sup> place
  - Souvarish Sarkar, “Voltage-Gated Potassium Channel KV1.3 Contributes to Sustained Microglial Activation and Neuroinflammation in Neurotoxicity Models of Parkinson's Disease”, Iowa State University, Ames, IA

*Best Presentation by a Postdoctoral Trainee*

Dr. Alessandro Venosa, “Alveolar Epithelial Cells Drive Recruitment and Phenotypic Activation of Immune Effector Cells in Lung Surfactant Protein-C Dysfunction”, University of Pennsylvania, Philadelphia, PA.

*Best Paper of the Year*

Brandon W. Lewis, Razia Sultana, Rahul Sharma, Alexandra Noël, Ingeborg Langohr, Sonika Patial, Arthur L. Penn and Yogesh Saini “Early Postnatal Secondhand Smoke Exposure Disrupts Bacterial Clearance and Abolishes Immune Responses in Muco-Obstructive Lung Disease” *The Journal of Immunology*, 199: 1170-1183

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

Dr. Alessandro Venosa, “Alveolar Epithelial Cells Drive Recruitment and Phenotypic Activation of Immune Effector Cells in Lung Surfactant Protein-C Dysfunction”, University of Pennsylvania, Philadelphia, PA.

*Mitzi and Prakash Nagarkatti Research Excellence in Immunotoxicology Travel Award*

Juyoung Shim, “Triclosan Effects on Protein Kinase C and Phospholipase D in Mast Cells”, University of Maine, Orono, ME.

*Outstanding Young Investigator Award*

Dr. Marie-Soleil Christin-Piché, Ph.D., Charles River Laboratories, Scientific Director of Immunology

*Outstanding Senior Investigator Award*

Dr. M. Firoze Khan, PhD, The University of Texas Medical Branch, Professor and Vice Chair for Research, Department of Pathology.

*Vos Award for Lifetime Career Achievement in Immunotoxicology*

Dr. Jack Paul Uetrecht, M.D., Ph.D., FACP, Professor, Leslie Dan Faculty of Pharmacy, University of Toronto

**2018 SOT Annual Meeting Courses/Sessions:**

*Continuing Education Courses:*

- An Introduction to the Basics of Immunotoxicity Testing; Chairpersons: Jamie DeWitt, East Carolina University and Sarah Blossom, University of Arkansas for Medical Sciences.

*Symposia:*

- Novel Insights on Chemical-Induced Immunotoxicity: Microvesicles and microRNA Dysregulation; Chairpersons: Emanuela Corsini, Università degli Studi di Milano and Stacey Anderson, CDC-NIOSH.
- Vaccine Safety: Current Status and Challenges in the Development of Safe Potent Vaccines; Chairpersons: Peyton Myers, USFDA and Yasuo Yoshioka, Osaka university.

*Poster Sessions:*

- *Immunotoxicity*; Chairpersons: Rebecca Dearman, University of Manchester, Manchester, United Kingdom; and Janice Lansita, ToxStrategies Inc., Kennett Square, PA.
- *Autoimmunity / Hypersensitivity / Inflammation*; Chairpersons: Sarah J. Blossom, University of Arkansas for Medical Sciences, Little Rock, AR; and Sidhartha Ray, Manchester University, Manchester, IN.
- *Immunotoxicity*; Chairpersons: Emanuela Corsini, Università degli Studi di Milano, Milan, Italy; Peter W. Dornbos, Michigan State University, East Lansing, MI; Victor J. Johnson, Burleson Research Technologies, Morrisville, NC; and Colleen McLoughlin, Scivera LLC, Morgantown, WV.
- *Inflammation*; Chairpersons: Marpe Bam, University of South Carolina School of Medicine, Columbia, SC; and Kathryn E. Bozell, Visikol, St. John's University, Fresh Meadows, NY.
- *Autoimmunity / Hypersensitivity*; Chairpersons: Cynthia Ryan, The Procter & Gamble Company, Mason, OH; and Hui Wang, University of Texas Medical Branch Galveston, Galveston, TX.
- *Nanotoxicity: Immunology*; Chairpersons: Jared Brown, University of Colorado Denver, Aurora, CO; Richard Salisbury, US Air Force Henry Jackson Foundation, Dayton, OH; and Jonathan Shannahan, Purdue University, West Lafayette, IN.

*Late-Breaking Sessions:*

- Immunotoxicity, Inflammation, Cell Death/Apoptosis; Late-Breaking Session #4

*2018 Annual Meeting Mentorship event:*

This year's mentoring event was attended by about 25 young immunotoxicologists. Feedback from attendees was positive. Mentors volunteering for the event included:

Vic Johnson, Burleson Research Technologies, Inc.

Debra Laskin, Rutgers University

Cheryl Rockwell, MSU

Laine Peyton Myers, FDA

Dori Germolec, NIEHS

Rodney Prell, Genentech

Ashwini Phadis-Moghe, Covance

**Endowment Fund Details (As of March 31, 2018):**

- Health and Environmental Science Institute (HESI) Immunotoxicology Award Endowment Fund: \$61,935
  - Gain on investments of \$3983
  - No new contributions
  - Travel funds of \$500 awarded to Alessandro Venosa University of Pennsylvania, Philadelphia, PA.
- Mitzi and Prakash Nagarkatti Research Excellence in Immunotoxicology Award Fund: \$43,162
  - New contributions of \$3025
  - SOT Matching Funds of \$2025
  - Gain on investments of \$2408
  - Travel funds of \$500 awarded to Juyoung Shim, University of Maine, Orono, ME.

#### **Newsletters:**

- Post-SOT Newsletter – Published in June 2017
- Winter Newsletter – Published in December 2017
- Pre-SOT Newsletter – Published in February 2018

Teleseminars: N/A

White Papers: N/A

#### **Contributions to SOT website:**

The ITSS Executive Committee and the Communications Committee worked closely with Raul Suarez of SOT to develop the new ITSS website. Brian Zhou designed the new logo that adorns the new website.

#### **Other Specialty Section 2017-2018 Activities:**

1. Conducted monthly teleconferences of the Executive Committee members, maintained meeting minutes.
2. Developed an ITSS DropBox for document sharing and storage for Executive Committee business. Provides much needed continuity from outgoing to incoming Executive Committee.
3. Refined best practices documents for awards and program committees and published 2018 versions. Developed and issued in 2018, a best practice document for the Education Committee.
4. Member of the ITSS Executive Committee was integral in the organization of a T-cell course entitled *T-cell Biology and Application to Immunopharmacology and Immunotoxicology Course* hosted by Health and Environmental Sciences Institute and held in Munich, Germany, April 4-5, 2018. This course was fostered by a similar HESI/ITSS-sponsored course held in the USA in 2017 and represents part of ITSS's international collaboration and outreach efforts.
5. Actively promoted and campaigned for the “Mitzi and Prakash Nagarkatti Research Excellence in Immunotoxicology Award Fund” endowment fund bringing the funds to \$43,162 as of March 31, 2018. ITSS will work to increase the fund value to the minimum (\$50,000) by 2020 to

establish the fund as permanent. The goal of the fund is to encourage and recognize graduate students and postdoctoral scholars for their excellence in research involving mechanisms of immunomodulation in health and disease.

6. Maintained ITSS membership in the 2017-2018 term. Developed approaches and communications templates for reaching out to new SOT members and new and existing members that express interest in ITSS.
7. Strengthened and expanded the ITSS International Committee. The ITSS-JSIT collaboration resulted in submission of a symposium for the 2018 SOT meeting that was accepted. As part of the collaboration, Dr. Danuta Herzyk presented a Special Lecture as the ITSS delegate at the Japanese Society of Immunotoxicology annual meeting in 2017 in Towanda, Japan. ITSS was successful in helping Dr. Herzyk obtain travel support through the SOT Global Initiatives funding mechanism. In 2017-2018, ITSS expanded its international reach and collaborative efforts to European partners. Dr. Emanuela Corsini was elected Vice-President Elect for the 2017-2018 term. Drs. Emanuela Corsini and Vic Johnson worked together to spearhead the collaborations and efforts lead to submission of the joint program proposal between ITSS and Immunotoxicology and Chemical Allergy Specialty Section (ITCASS) of EUROTOX.
8. Held face-to-face Immunotoxicology Specialty Section Officers Meeting on Monday March 12, 2018.
9. Formed the ITSS Scientific Advisory Committee, chaired by Peyton Myers, Immediate Past President. This committee is composed of the current Immediate Past President, President, Vic President, and Vic President Elect along with selected ITSS Past Presidents. The charge of this committee was to evaluate the state of the science for immunotoxicology and act as a think tank for generation of program ideas for the upcoming SOT meeting.
10. Developed Mission Statements for all of the ITSS committees in an effort to be more transparent with ITSS membership. This effort was important for providing membership information on the goals and charge of each committee at the time of requesting volunteers. Concise posters were printed with the Mission Statements and made available at the sign-up counters during the ITSS business meeting. These posters were printed on fabric and will serve as a resource for years to come.