Dear HOT members,

It is my pleasure to invite you to all the SOT and HOT activities during the 2017 SOT Annual Meeting! In this special issue you will find information about the HOT mentoring lunch, the HOT Poster that includes our achievements during the last year, our 2017 Trainee Travel Awards and Distinguished Toxicologists Award, and the information about our traditional and very exciting 2017 HOT Annual Awards Ceremony and Reception. We also are including information about the poster presentations of our HOT members, and strongly encourage you to visit them and look for potential collaborations and networking. Come to chat with us at the Pavilion! We look forward to seeing you there!

Elena Hernández-Ramón, MD, PhD
HOT President
Building Bridges Through Toxicology
HOT Activities at SOT

**VISIT HOT AT THE ToxEXPO SOT PAVILION**

Don’t miss the opportunity to chat with a member of the HOT Executive Committee during the SOT conference. The SOT meeting offers an opportunity for HOT members and nonmembers to network informally with the HOT EC board, to connect and gain a better understanding of HOT initiatives around the world. We will have a designated area and poster highlighting our SIG in the Pavilion. Look for us!!! Free Wi-Fi. Stop by and support HOT members in their poster and oral presentations.

**Tue, March 14th 6:15 PM to 8:45 PM**
Maryland Art Place
218 W Saratoga St, Baltimore, MD 21201
HOT Travel Awards presented
Delicious food and drink served
DJ with dancing and a good place to meet old friends and make new ones.

**ATTEND HOT ANNUAL AWARDS CEREMONY AND RECEPTION**

**PARTICIPATE in the HOT MENTORING ACTIVITY**

Lunch will be provided.
**How to prepare a great Curriculum Vitae?**
Attend the mentoring luncheon to learn strategies on how to make your CV highlight the skills, talents, and experience to help you obtain the desired position.
More information: alinedeconti@gmail.com

**HOT Sponsors**

HOT appreciates your generous financial contribution to this year’s Annual Travel Awards Ceremony and Reception.
After careful evaluation the 2017 HOT Travel Award winners are:

**DISTINGUISHED TOXICOLOGIST AWARD**

Jose E. Manautou  
Professor of Pharmacology & Toxicology  
Interim Head, Department of Pharmaceutical Sciences

**POSTDOCTORAL AWARD**

Jose Zavala  
US EPA

**GRADUATE STUDENT TRAVEL AWARD**

Lina Maria Peña-Acevedo  
Universidad de Antioquia, Medellin Colombia

Sponsor: Ingenieros Lemus de Mexico

**UNDERGRADUATE STUDENT**

Lis Rueda  
Universidad de Buenos Aires

Sponsor: Ingenieros Lemus de Mexico

**GRADUATE STUDENT TRAVEL AWARD**

Michelle Hernandez  
Department of Environmental Medicine, NYU

Sponsor: GMA

**GRADUATE STUDENT TRAVEL**

John Szilagyi  
Department of Pharmacology & Toxicology, Rutgers State University

Sponsor:
HOT serves as a focal point for interaction among Hispanic/Latino Toxicologists in the United States and the international Spanish and Portuguese-speaking scientific communities.

Benefits:
- Network with the largest Hispanic/Latino toxicologist community
- Serve as a mentor to Hispanic/Latino toxicologists
- Eligibility to serve as a HOT Officer and compete for HOT Travel Awards
- Receive Toxenlaces newsletters and announcements
- Attend the HOT Annual Meeting (at SOT Annual Meeting)
- Increase the visibility of your presentation at SOT conference
- Compete for HOT Travel Awards

How to join?

SOT Members
Add HOT Membership when updating SOT membership. $15/year for Full/Associate members. Free for postdoctoral and students if first SIG.

http://www.toxicology.org/

Non-SOT Members
Print, complete, and mail the Non-SOT Member Application to the address indicated on our website.

http://www.toxicology.org/groups/sig/hot/

2016 HOT ACHIEVEMENTS

Awards
For the 2017 SOT 56th Annual Meeting, HOT awarded one Distinguished Toxicologist Award and five Student Travel Awards (one Post-doctoral fellow, four graduate students).

Career Development
In 2016 with the support of SOT, HOT offered the Career Development Workshop during the SOT Annual Meeting. The HOT 2017 workshop will be held on Wednesday, March 15th from 12:15 to 1:15 pm in Room 341 of the Baltimore Convention Center. It will include a key note speaker and tips for CV preparation.

Sister Organizations
Active participation at: SOT 2016, Congress of Toxicology in Developing Countries, and IUTOX 2016.

HOT Newsletter
By March 2017, 6 Toxenlaces have been published. Particular sections include the Trainee Section with 5 contributions, 3 invited HOT members published short scientific articles, 5 HOT Professional tips by Jose Francisco Delgado Jimenez, and one When I grow up section.

HOT Initiatives
The communications committee has successfully renewed the HOT website and increased social media outreach to 998 followers.

International Outreach
- HOT developed with Clubes de Ciencia México (CdeCMx) the first webinar entitled “Experimental and Biological Factors Influencing our Observations in Toxicological Assays – as part of the webinar series “Updates in Toxicology.” Our speaker was Dr. Marcelo Wolansky, HOT Councilor for Sister Organizations.
- HOT hosted a booth, 2 travel awards (undergraduate and graduate student, sponsored by BioReliance and EMGS), and offered membership at the XIV International Congress of Toxicology (ICT) in October 2016 in Mérida, México.
- During the ICT, 2016 more than 100 new HOT members were recruited from 12 Latin American countries. Now we are 300 members. Historic Number!!!
MONDAY
Poster presentations
CC Exhibit Hall or Hall A, 9:30 AM to 12:45 PM

Session Name: Mixtures

Abstract Number/Poster Board Number: 1125/P162
Abstract Title: Gas-Phase Mutagenicity in Salmonella of 12 Distinct Simulated Smog Atmospheres Generated Using Environmental Irradiation Chambers

Session Name: Developmental and Juvenile Toxicity

Abstract Number/Poster Board Number: 1237/P361
Abstract Title: The Endocannabinoid Anandamide Disrupts the Syncytialization of Human Placental Trophoblasts and Expression of Uptake and Efflux Transporters
Authors: J. T. Szlajagy, A. Vetrano, L. M. Aleksunes, J. D. Laskin

CC Exhibit Hall or Hall A, 1:15 PM to 4:30 PM

Session Name: Neurotoxicity: Metals-Manganese
Abstract Number/Poster Board Number: 1397/P202
Abstract Title: In Vivo Dopamine Release PET and T1-Weighted MRI Relaxation Time in the Frontal Cortex of Mn-Exposed Nonhuman Primates: Are the Effects Reversible?

Workshop session
CC Exhibit Hall or Hall A, 2:00 to 4:45 PM

Workshop Title: Bispecific Molecules: Nonclinical and Clinical Development Challenges
Chairpersons: Pedro Del Valle and Patricia Ryan

TUESDAY
Poster presentations
CC Exhibit Hall or Hall A, 9:30 AM-12:45 PM

Session Name: Metals I: Arsenic and Lead

Abstract Number/Poster Board Number: 1179/P317
Abstract title: Environmentally Relevant Exposures to Arsenite Suppress the Development of Early Bone Marrow Erythroid Progenitors In Vivo and In Vitro
Authors: Sebastian Medina, Shu Chun Wang, Huan Xu, Fredine T. Lauer, Ke Jian Liu, and Scott W. Burchiel A.

Session name: Neurotoxicology: General Neurotoxicity

Abstract Number/Poster Board Number: 1751/P236
Abstract Title: Antioxidant Defense Genes Respond Differentially to a Hepatotoxic Dose of Acetaminophen in Male and Female Mouse Brain Barriers
Authors: K Flores, J. Larry Renfro, J. Manautou.

CC Exhibit Hall or Hall A, 1:15 PM - 4:30 PM

Session Name: Chemical and Biological Weapons

Abstract Number/Poster Board Number: 2070/P232
Abstract Title: Mast Cell Stabilization Is Associated with Reduced Inflammation in Mouse Skin following Sulfur Mustard-Induced Injury

Session Name: Biotransformation

Abstract Number/Poster Board Number: 2232/P547
Abstract Title: In Vitro Biotransformation of Vinclozolin by Human Liver Microsomes
Authors: Adolfo Sierra-Santoyo

Platform sessions

Session name: Endocrine Toxicology

Time / Room: 11:25 AM/ Room 308
Abstract or presentation title: Interaction of Estrogenic Endocrine Disruptors—Bisphenol-A (BPA) and Polychlorinated Biphenyls (PCBs) with NRF1 Community Genes and Breast Neoplasms
Complete list of authors: J.D. Ramos, D. Roy

Session name: Mechanisms of Toxicity: SPC Highlights Emerging Scientists

Time / Room: Tuesday, March 14. 9:30 AM / Room 310
Abstract or presentation title: MicroRNA Biomarkers to Detect Fibrosis underlying Chronic Kidney Injury
Authors: M Cardenas Gonzalez, A. Srivastava, M. Pavkovic, M. Afkarian, S. Parikh, B. Katiria, C. J. Lacey, J. Himmelfarb, S. S. Waikar, V. S. Vaydia

WEDNESDAY
Poster presentations
CC Exhibit Hall or Hall A, 9:30 AM-12:45 PM

Session Title: Liver 1: Mechanisms and Translational Biomarkers

Abstract Number/Poster Board Number: 2513/P320
Abstract title: NRF2 Influences the Regulation of Ppara-Dependent Genes in Mouse Liver
Authors: Sebastián V. Carvalho, Katiria Flores, Gregory J. Smith and José E. Manautou
Session Title: Liver 2: Mechanisms and Translational Biomarkers

Abstract Number/Poster Board Number: 2526/P333
Abstract Title: Enhanced Hepatic Steatosis following Valproic Acid Administration in Mrp4-Deficient Mice
Authors: C Labows, K Flores, J. L. Renfro, G. J. Smith, F Carvalho, & J. E. Manautou

Abstract Number/Poster Board Number: 2541/P348
Abstract Title: Loss of Mrp4 Function Disrupts Lipid Homeostasis and Impairs Liver Regeneration following Partial Hepatectomy
Complete List of Authors: G Smith, K Flores, F. V. Carvalho, Y Lee, J. E. Manautou

Session Title: Animal Models

Abstract Number/Poster Board Number: 2677/P605
Abstract Title: Nitrogen mustard Induces Nuclear Hypertrophy in Mouse Epidermis

CC Exhibit Hall or Hall A, 1:15 PM-4:30 PM

Session Title: Alternatives to Mammalian Models II

Abstract Number/Poster Board Number: 2792/P160
Abstract Title: Toxicity Profiling Using a Battery of Assays in Zebrafish Embryos Including Teratogenicity, Behavior, Cardiotoxicity, Ototoxicity, and Hepatotoxicity
Authors: A. Alzualde, C. Quevedo, A. Alday, I Irijalba, O. Holgado, A. Muriana, K. Ryan, R.S. Paules and M. Behl

Abstract Number/Poster Board Number: 2793/P161
Abstract Title: Evaluated the Effects in the Locomotor Activity vs. Morphological Alterations by Different Types of Biocides in Zebrafish Embryos
Complete List of Authors: A. Alday, C. Quevedo, I Irijalba, A. Muriana, A. Alzualde.

Session Title: Risk Assessment: Strategies and Applications

Abstract Number/Poster Board Number: 2808/P210
Abstract Title: Using Data Science to Identify A-Risk Subpopulations Exposed to Ground Water Contaminants: A Case Study in US-Mexican Mestizos and Arsenic Exposure
Complete List of Authors: Druwe IL, Lee JS, Cote I, and Burgoon LD

Session Title: Ecotoxicology

Abstract Number/Poster Board Number: 2855/P313
Abstract Title: Triclosan and Methylparaben and Their Mixtures Affect the Growth of the Microalga Chlorella Vulgaris

Workshop Session

CC Ballroom IV, 9:30 AM-12:15 PM
Workshop title: Challenges and Novel Approaches Evaluating Developmental and Reproductive Toxicity of Biotherapeutics
Presentation title: Thinking Beyond DART Studies for Risk Assessment of Biotherapeutics
Author: Pedro Del Valle.

THURSDAY

CC Exhibit Hall or Hall A, 8:30 AM - 11:45 AM

Session Title: Late-Breaking Poster Session 2

Abstract Number/Poster Board Number:3332/P302
Abstract Title: Lung Injury and Oxidative Stress in Rats following Inhalation of Sulfur Mustard

Abstract Number/Poster Board Number:3405/P377
Abstract Title: Postnatal Development of Rat Pups after Maternal Low-Dose Exposure to the Carbamate Insecticide Carbaryl during Gestation
Authors: L. Rueda

Abstract Number/Poster Board Number:3456/P429
Abstract Title: Artisanal Mining Risks
Authors: L.M. Peña Acevedo

Abstract Number/Poster Board Number: 3538/P513
Abstract Title: World Trade Center Dust Induces Nasal and Neurologic Tissue Injury, Impairs Olfaction Capabilities, and Increases Anxiety Behaviors
Authors: M. Hernandez

Session Title: Late-Breaking Poster Session 6

Abstract Number/Poster Board Number: 3543/P518
Abstract Title: In Vitro Toxicological Evaluation of Ultrasmall Superparamagnetic Iron Oxide Nanoparticles on Human Coronary Artery Endothelial Cells
Authors: T Palacios-Hernandez, G Kumar, AK Nguyen, PE Petrochenko, Y Wu, KS Phillips, SA Skoog, EM Sussman, J Zheng, X Tang, PL Goering