Dear HOT Members,

On behalf of the HOT Executive Committee it is my pleasure to invite you to join us during the 58th SOT Annual Meeting in Baltimore. HOT’s program for this year includes the traditional HOT Business and Reception (Tuesday, March 12th at the Baltimore Marriott Inner Harbor, 6-9 pm) where you can congratulate our 2019 Award Winners, recognize HOT’s generous Sponsors and meet old and new friends. Also, you cannot miss the HOT Mentoring Activity (Tuesday, March 12th at the Sheraton Inner Harbor, 12:30-13:30 pm) organized by our Grad Rep Yanelli Nunez and Councilor Teresa Palacios. Take time to visit the HOT member presentations throughout the week, and the HOT Poster that includes our annual achievements. Come join HOT leadership at the SOT Pavilion during the ToxExpo open hours.

We look forward to seeing you in Baltimore.

Silvia Berlanga de Moraes Barros, PharmD, MSc, PhD
HOT President
Building Bridges Through Toxicology
Don’t miss the opportunity to chat with a member of the HOT Executive Committee during the SOT Annual Meeting, 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!!!

Stop by and support HOT members in their poster presentations

**Monday March 11, Tuesday, March 12 and Wednesday March 13, 9:00 AM to 4:30 PM CC Exhibit Hall**

**Thursday, March 14, 8:30-11:30 AM CC Hall A**

**Tuesday, March 12 6:00 PM to 9:00 PM**
Baltimore Marriot Inner Harbor, University Ballroom 1
110 S Eutaw St, Baltimore, MD 21201
HOT Travel Awards presented
Delicious food and drinks served
DJ with dancing, and, a good place to meet friends and networking.

**Tuesday, March 12, 12:30 PM–1:30 PM**
Sheraton Inner Harbor, Severn Room 1-3
Light snacks and refreshments will be provided.

**A path to success: tips and strategies for my professional interview**
The HOT Mentoring Activity will serve as a workshop aimed specifically to discuss aspects that interviewers consider valuable when recruiting candidates for an academic, industrial, or governmental position. More information: yn2295@cumc.columbia.edu.

**VISIT HOT AT THE ToxEXPO SOT PAVILION**

**ATTEND HOT AWARD CEREMONY AND ANNUAL RECEPTION**

**PARTICIPATE in the HOT MENTORING ACTIVITY**

**SUPPORT PRESENTATIONS OF HOT MEMBERS**
## 2018-2019 HOT ACHIEVEMENTS

<table>
<thead>
<tr>
<th>Awards</th>
<th>• For the 2019 58th SOT Annual Meeting, HOT awarded 1 Distinguished Toxicologist Award, 3 Travel Awards and 1 Special Travel Award for a HOT member outside U.S. Special thank you to our sponsors and congratulations to all the awardees!</th>
</tr>
</thead>
</table>
| Career Development                                                     | • In 2019 with the support of SOT, HOT offered the Mentoring Activity “Careers in Toxicology” during the SOT Annual Meeting. The HOT 2019 Mentoring Activity “Path to Success: Tips and Strategies for my Professional Interview” will be held on Tuesday, March 12th from 12:30 to 1:30 PM in Severn Room 1-3 of the Sheraton Inner Harbor. The event will include roundtable discussions with experts from academia, government and industry.  
• HOT interviewed Dr. Ofelia Olivero (NIH) regarding mentoring in the life sciences. This two-part video interview can be accessed at [http://www.toxicology.org/groups/sig/hot/education.asp](http://www.toxicology.org/groups/sig/hot/education.asp). |
| Sister Organizations                                                   | • Active participation at SOT 2019, 15th International Congress of Toxicology (Honolulu, HI), and 11th Congress of Toxicology in Developing Countries (CTDC11, Kuala Lumpur, Malaysia). |
| HOT Newsletter                                                         | • From April 1, 2018-March, 1 2019, 4 Toxenlaces have been published. Particular sections include the Trainee Section with 3 contributions, 3 short Scientific Articles by invited HOT members, and 1 HOT Professional Tip by Teresa Palacios. |
| HOT Initiatives                                                        | • The communications committee has increased social media outreach to 1,116 followers.  
• Three HOT Executive Committee members are actively participating in the 15th International Congress of Toxicology (ICTXV), which will take place on July 15-18,2019 in Honolulu, HI |
| International Outreach                                                 | • As part of the webinar series “Updates in Toxicology”, HOT and Clubes de Ciencia Mexico (CdeCMx) hosted the webinar “Alzheimer Disease: Role of the Brain-Blood Barrier” on June 21st, 2018. The webinar was presented by Dr. Elvis-Yane Cuevas-Martinez, and there were a total of 18 attendees from Mexico, Peru, Guatemala, Spain and US. Additionally, on October 16th, 2018, HOT sponsored the webinar “Epigenetics and Toxicology” for the first time with Clubes de Ciencia Brasil and University of Sao Paulo, which was presented by our HOT Councilor, Dr. Aline De Conti. This webinar beat our audience records, with a total of 78 attendees from 9 countries (Brazil, Peru, Chile, Spain, Mexico, Canada, Germany, Finland and US). |
| Membership                                                             | • HOT has 154 members, from 10 different countries! |

### How to join HOT?

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
- Eligibility to serve as a HOT Officer
- Compete for HOT Travel Awards

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


**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](http://www.toxicology.org/groups/sig/hot)
16th Annual Reception

Tuesday, March 12th, 2019
6:00 PM-9:00 PM
Baltimore Marriott Inner Harbor,
University Ballroom 1

Hot Mentoring Activity

A Path to Success
Tips and strategies for my professional interview

Tuesday, March 12th, 2019
12:30 PM–1:30 PM
Sheraton Inner Harbor,
Severn Room 1-3
HOT Travel Award Winners

CONGRATULATIONS

2019 HOT Distinguished Toxicologist Award

Pedro Del Valle, PhD
Center for Drug Evaluation and Research, Office of New Drugs
U.S. Food and Drug Administration

2019 HOT Outstanding Officer

Julieta Martino, PhD
Postdoctoral Fellow
Fundación Instituto Leloir
Buenos Aires, Argentina.

HOT Student Travel Awards

Lyda Yuliana Parra Forero
Centro de Investigación y Estudios Avanzados
Instituto Politécnico Nacional, Mexico

Henry Lujan
Department of Environmental Science
Baylor University

Yael-Nathalie Escobar
Center for Environmental Medicine, Asthma & Lung Biology
University of North Carolina at Chapel Hill

Eduardo Gonzalez
School of Veterinary Medicine
University of California, Davis
### Postdoctoral Assembly Luncheon

<table>
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<tr>
<th>Date</th>
<th>Time</th>
<th>Location</th>
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<tr>
<td>Tuesday, March 12</td>
<td>12 pm to 1:00 pm</td>
<td>CC Room 325 (Ticket Required)</td>
<td>The Postdoctoral Assembly (PDA) Luncheon is a casual event that encourages engagement and networking among postdoctoral scholars. Finishing up a discussion from your morning poster session? Leaving early to set up a poster or attend another meeting? That’s no problem; stop in when you can! Enjoy a buffet lunch while networking with others, including PDA officers, Postdoctoral Representatives, and SOT Councilors. This is the time for postdocs to relax, celebrate achievements, and have fun. At 12:45 pm, there will be a short program, which will include recognition of the Best Postdoctoral Publication Award recipients and the welcoming of the 2019–2020 PDA officers. Door prizes add even more fun to this lively event. Postdocs should reserve a ticket for $10 when registering for the Annual Meeting.</td>
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### Student/Postdoctoral Scholar Mixer

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| Sunday, March 11 | 7:30 PM to 9:00 PM | Hilton Baltimore Holiday 4 (Ticket Required) | Hosted by: Graduate Student Leadership Committee (GSLC)
This opportunity is for all students and postdoctoral scholars to gather, meet new colleagues, and reestablish relationships in an informal atmosphere at the beginning of the meeting. Learn about being involved in SOT by speaking with student leaders at the SOT component group posters. The GSLC Outstanding Leadership Award is presented during this event. Ticket (at no cost) and meeting badge are required. Complimentary refreshments and a cash bar will be available. |
### Ecotoxicology (3:00-4:30 PM)

**Endocrine Disruptors Screening Analyzing Zebrafish Sperm Quality.** M.J. Mazón, A. Muriana and A. Alday  
Abstract number/Poster Board number: 1156/P180

**Lack of Multidrug Resistance-Associated Protein 4 (Mrp4) Does Not Alter Susceptibility towards Acetaminophen Toxicity.** AC. Donepudi, MJ. Goedken, JE. Manautou  
Abstract number/Poster Board number: 1279/P308

**TSPO Gene Dosage Decreases Nox2 Subunit Gene Expression in Microglia: Implications for Regulation of ROS in the CNS.** V. Nunes de Paiva, D.J. Azzam, T.R. Guilarte  
Abstract number/Poster Board number: 1326/P381

### Neurotoxicity: General (9:15-10:45 AM)

**TSPO Gene Dosage Decreases Nox2 Subunit Gene Expression in Microglia: Implications for Regulation of ROS in the CNS.** V. Nunes de Paiva, D.J. Azzam, T.R. Guilarte  
Abstract number/Poster Board number: 1326/P381

**Early-Life Lead Exposure Increases μ-Opioid Receptor Levels in the Juvenile Rat Brain: Implications for Opioid Addiction.** D Albores Garcia, JL McGlothan, TR Guilarte  
Abstract number/Poster Board number: 1364/P421

**Assessment of Neurotoxic Potential of 90 Blinded Compounds Using Zebrafish Embryos.** C Quevedo, M Behl, K Ryan, RS Paules, A Alday, A Muriana and A Alzualde  
Abstract number/Poster Board number: 1376/P433

### Metals (1:30-3:00 PM)

Abstract Number/Poster Board number: 1396/P454

**Di(2-Ethylhexyl) Phthalate (DEHP) Decreases the Extrusion of the First Polar Body in Murine Oocytes at Different Reproductive Ages.** LY Parra-Forero, A Mojica-Villegas, E Alfaro-Pedraza, I Hernández-Ochoa  
Abstract Number/Poster Board number: 1499/P614

**Experimental Rat Cryptorchidism and Susceptibility to Dibutyl Phthalate or Acrylamide.** N. Souza, A. Cardoso, L. Gomide, G. Brianezzi, T. Lima, H. Miot, A. Martino-Andrade, L. Arnold, K. Pennington, S. Cohen, J. de Camargo, M. Nascimento e Pontes  
Abstract number/Poster board number: 1501/P616

**Intratesticular Testosterone Levels In Vivo vs In Vitro.** P. Del Valle, L. Pence, T. Schmitt, R. Beger, N. Nakamura  
Abstract number/Poster board number: 1531/P646

**Gaining Insights to Molecular Mechanisms of Combined Air Pollutants Exposures Using PBPK Models and Systems Biology Approaches.** Patricia Ruiz, Claude Emond, Eva McLeanahan, Moiz Mumtaz  
Abstract Number/Poster Board number: 1827/P208

**Analyzing the Cellular Stress Responses in Airway Epithelial Cells to Vaporized Propylene Glycol and Glycerol.** YN Escobar, G. Nipp, J. Surrat, I. Jaspers  
Abstract number/Poster board number: 1929/P315

**Natural History of Inhaled Sulfur Mustard Poisoning in Rats.** R. Malaviya, R. Rancourt, E. Abramova, A. Bellomo, Z. Henry, C. Crouch, J. Roseman, E. Peters, R. P. Casillas, C. Amuzie, V. Sunil, J. D. Laski1, and D. L. Laskin  
Abstract number/Poster board number: 2025/P415
Chemical Threats and Bioterrorism I (9:15-10:45 AM)

Acute Intoxication of Juvenile Rats with Diisopropylfluorophosphate (DFP) Causes Sex-Specific Seizure Behavior and Neuropathology. E.A. Gonzalez, S Supasai, P.J. Lein.
Abstract number/Poster board number: 2171/P572

Posters from our members

Abstract number/Poster board number: 2148/P549

Nanotoxicology In Vitro: Alternative Testing Strategies (10:45 AM-12:15 PM)

Impact of Various Surface Coatings on In Vitro Cell Uptake and Cytotoxicity of Ultrasmall Superparamagnetic Iron Oxide Nanoparticles (USPION). T Palacios-Hernandez, AK Nguyen, SA Skoog, Y Wu, X Tang, PL Goering
Abstract Number/Poster Board number: 2192/P595

Abstract Number/Poster Board Number: 2213/P616

Nanotoxicology In Vitro: Mechanism, Uptake, and Cellular Response (10:45 AM-12:15 PM)

Immunotoxicity (9:15-10:45 AM)

Development of a Zebrafish Larvae-Screening Assay to Identify Compounds with Immunotoxicity and Anti-inflammatory Activity. I. Iturria, O. Jaka, C. Marti, A. Muriana and M.J. Mazón
Abstract Number/Poster Board number: 2280/P691

Alternatives to mammalian Models I (10:45 AM-12:15 PM)

Cytotoxicity and Oxidative Stress of Nivalenol and Sterigmatocistin on Human Hepatocarcinoma Cells. M.J. Ruiz, C. Fedeli, V. Zingales, A. Juan-Garcia, and M. Fernandez-Franzon
Abstract Number/Poster Board number: 2445/P860

Alternatives to mammalian Models II (1:30-3:00 PM)

Bioprinting Microtissues with Human 1T1 Urothelial Cells Exposed to Diuron and Its Metabolites

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HOT
### Sister Organizations

<table>
<thead>
<tr>
<th>Organization</th>
<th>Website</th>
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<tbody>
<tr>
<td>Asociación Española de Toxicología</td>
<td><a href="http://www.aetox.es/">http://www.aetox.es/</a></td>
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<tr>
<td>Asociación Latinoamericana de Toxicología</td>
<td><a href="http://www.alatox.org/">http://www.alatox.org/</a></td>
</tr>
<tr>
<td>Asociación Toxicológica Argentina</td>
<td><a href="http://www.ataonline.org.ar">http://www.ataonline.org.ar</a></td>
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<tr>
<td>Asociación Venezolana de Toxicología Médica</td>
<td><a href="https://www.facebook.com/groups/176740585757320/?ref=br">https://www.facebook.com/groups/176740585757320/?ref=br</a></td>
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<tr>
<td>Center of Environmental and Toxicological Research – University of Puerto Rico</td>
<td><a href="http://cetr.rcm.upr.edu">http://cetr.rcm.upr.edu</a></td>
</tr>
<tr>
<td>Escuela Académico-Profesional de Toxicología de la Universidad Nacional Mayor de San Marcos</td>
<td><a href="http://farmacia.unmsm.edu.pe/pregrado/toxicologia.html">http://farmacia.unmsm.edu.pe/pregrado/toxicologia.html</a></td>
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<tr>
<td>Red Iberoamericana de Toxicología y Seguridad Química</td>
<td><a href="http://www.ritsq.org">http://www.ritsq.org</a></td>
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<td>Sociedade Brasileira de Toxicologia</td>
<td><a href="http://www.sbtox.org.br">http://www.sbtox.org.br</a></td>
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<tr>
<td>Sociedad Mexicana de Toxicología</td>
<td><a href="http://www.somtox.com.mx/">http://www.somtox.com.mx/</a></td>
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<tr>
<td>Society for Risk Analysis Latin America</td>
<td><a href="http://www.srala.org/">http://www.srala.org/</a></td>
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<tr>
<td>Toxicología Acuática Ambiental, Medicina Veterinaria-</td>
<td><a href="http://www.docentes.unal.edu.co/jfgonza">http://www.docentes.unal.edu.co/jfgonza</a></td>
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<td>Universidad Nacional de Colombia</td>
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<td>Universidad de Cartagena</td>
<td><a href="http://reactivos.com">http://reactivos.com</a></td>
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</tbody>
</table>

If your Sister Organization is planning a Toxicology meeting or if you are organizing a Toxicology event intended for a primarily Hispanic audience, and want to promote it, send an email to Dr. Robert P. Casillas (Chair of Global Outreach Committee) at rcasillas@lathambiopharm.com for more information for its inclusion in upcoming Toxenlaces issues.
HOT wants you to be part of the organization! To make it available to everyone, HOT accepts applications from non-SOT members to become HOT members. Yes, that is right!! You only have to have the desire to collaborate with and be part of our great organization.

Your HOT membership provides you with valuable resources throughout your scientific career as for networking through the largest Hispanic toxicologist community, giving you opportunity for Travel Awards or serving as a mentor to the young Hispanic toxicologists; besides you receive the Toxenlaces newsletter every two months.

Application and more information can be found at Non-SOT Member Application. So, what are you waiting for? We are looking forward to receiving your application today!!

Follow us on Facebook at: http://www.facebook.com/hispanicorganizationoftoxicologists
Don’t forget to visit also the SOT Facebook page:

- Toxenlaces is the newsletter that informs Hispanic toxicologists in the United States and the international Spanish and Portuguese-speaking scientific communities about important toxicological events and issues occurring in our countries. It is electronically published and distributed to our membership and Sister Organizations in Ibero-America. Toxenlaces disseminates critical dates for events, health perspectives, and funding and training opportunities. It serves as a toxicology forum for our members and other partner organizations, engages in educational outreach to the Hispanic communities and provides the essential elements to support networking among Hispanic toxicologists. Toxenlaces is open to receive collaborations from HOT and SOT members, and Sister Organizations. You can collaborate with short scientific articles, news or notes related with toxicology. Other ways to collaborate is by nominating your peers or yourself for the sections Trainee Section and When I Grow Up. For more information about collaborating with Toxenlaces send an email to Jose Delgado (Toxenlaces Editor) at jose.delgadojz@gmail.com with copy to Alejandro Ramirez-Lee (Toxenlaces Assistant-Editor and Graphic designer) at alejandroramirezlee@gmail.com

The views expressed in this Toxenlaces issue do not necessarily represent those of the Hispanic Organization of Toxicologists (HOT) or Society of Toxicology (SOT).