For the most up-to-date information on all Annual Meeting sessions, events, and activities, consult the SOT Event App and the Online Planner on the Annual Meeting website.

Services such as a coat/luggage check, concessions, first-aid room, housing desk, nursing mothers’ room, on-site registration, the SOT Office, and the Speaker Ready Room are available throughout the meeting. Check the SOT Event App, Online Planner, and Annual Meeting website for times and locations. Also, check the SOT Event App and Online Planner for Committee meetings and other ancillary event information.

All events in this overview take place in the Anaheim Convention Center (abbreviated as CC throughout all Annual Meeting materials) unless otherwise noted.

Abstract numbers are four digits. Poster boards are indicated with a “P” followed by three digits. The colored shapes next to the Poster Sessions represent the color-coded poster board area in the ToxExpo Exhibit Hall where the posters in that session will be displayed.

**Saturday, March 14**

5:00 PM to 7:30 PM
**UNDERGRADUATE DIVERSITY PROGRAM**
- Registration and Opening Event (By Invitation Only)
  Anaheim Marriott Platinum 2

7:30 PM to 8:30 PM
**SPECIAL EVENT**
- Committee on Diversity Initiatives (CDI) Reunion
  Anaheim Marriott Platinum 2

**Sunday, March 15**

7:00 AM to 7:45 AM
**CONTINUING EDUCATION SUNRISE MINI-COURSES**
  Ticket Required
  - SR01 Advances in CRISPR-Cas9 Tools and Applications for Toxicologists
    Room 304A
    Abstract #: 1001
    - SR02 Qualifying Biomarkers and Navigating the US FDA Predictive Toxicology Roadmap to Improve Decision-Making in Toxicology and Drug Safety Assessment
    Room 304C
    Abstract #: 1002

8:00 AM to 5:00 PM
**UNDERGRADUATE EDUCATION PROGRAM**
- This daylong program introduces undergraduates to toxicology and includes opportunities to explore and interpret data, meet with academic program directors, and network with SOT mentors.
  Anaheim Marriott—Various Locations

8:15 AM to 12:00 Noon
**CONTINUING EDUCATION MORNING COURSES**
  Ticket Required
  - AM03 Developing Therapeutics for Ocular Indications: A 20/20 View
    Room 303A
    Abstract #: 1003
  - AM04 Introduction to Open-Access Computational Toxicology Tools
    Ballroom D
    Abstract #: 1004
  - AM05 Lung Function: It’s Not Just Breathing
    Room 303C
    Abstract #: 1005
  - AM06 Modern Modeling Strategies to Address Uncertainty and Variability in Dose-Response Assessment
    Room 304A
    Abstract #: 1006
  - AM07 The Basics of In Vitro Xenobiotic Metabolism and Drug-Drug Interaction Investigations: Applicability to All Xenobiotics
    Room 304C
    Abstract #: 1007
  - AM08 Timing Is Everything: Developmental Exposure Alters the Path of Immune Cell Maturation and Function
    Ballroom E
    Abstract #: 1008
### 1:15 PM to 5:00 PM
**CONTINUING EDUCATION AFTERNOON COURSES**

Ticket Required

<table>
<thead>
<tr>
<th>PM09</th>
<th>AAV Vectors on the Move: Safety Assessment and Advancing Sciences in Gene Therapy Second-Generation Products</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ballroom D</td>
<td><strong>Abstract #: 1009</strong></td>
</tr>
<tr>
<td>PM10</td>
<td>An Introduction to New Approach Methodologies (NAMs) and Understanding Their Potential to Support Regulatory Decisions</td>
</tr>
<tr>
<td>Ballroom E</td>
<td><strong>Abstract #: 1010</strong></td>
</tr>
<tr>
<td>PM11</td>
<td>Gateway Technologies to Tomorrow’s Metal Toxicological Research</td>
</tr>
<tr>
<td>Room 303A</td>
<td><strong>Abstract #: 1011</strong></td>
</tr>
<tr>
<td>PM12</td>
<td>Harnessing the T Cell for Cancer Immunotherapy: A Course on T Cell Redirection</td>
</tr>
<tr>
<td>Room 304A</td>
<td><strong>Abstract #: 1012</strong></td>
</tr>
<tr>
<td>PM13</td>
<td>In Vitro Approaches to Assess the Toxicity of Inhaled Substances</td>
</tr>
<tr>
<td>Room 304C</td>
<td><strong>Abstract #: 1013</strong></td>
</tr>
<tr>
<td>PM14</td>
<td>The Male Reproductive Tract: Development, Toxicology, and Pathology</td>
</tr>
<tr>
<td>Room 303C</td>
<td><strong>Abstract #: 1014</strong></td>
</tr>
</tbody>
</table>

### 4:45 PM to 6:30 PM
**AWARDS CEREMONY AND MUSIC**

- All are invited to attend this recognition of the 2020 SOT award recipients.
  
  **Ballroom A**

### 6:30 PM to 7:30 PM
**SPECIAL EVENT**

- Welcome Reception
  
  **Grand Plaza (Outdoor Space in Front of the CC)**

### 7:00 PM to 8:00 PM
**SPECIAL EVENT**

- 25-Year (or More) Member Reception (By Invitation Only)
  
  **Anaheim Marriott Marquis Northeast**

### 7:30 PM to 9:00 PM
**STUDENT AND POSTDOC EVENT**

- Student/Postdoctoral Scholar Mixer (Ticket Required)
  
  **Anaheim Marriott Marquis Center**

### 8:00 PM to 10:00 PM
**SOT COMPONENT GROUP EVENT**

- Out Toxicologists and Allies Special Interest Group Inaugural Reception
  
  **McCormick & Schmick’s Grille**

### Monday, March 16

#### 6:15 AM to 7:45 AM
**SPECIAL EVENT**

- SOT Mentoring Breakfast (Ticket Required)
  
  **Room 207C**

#### 6:30 AM to 8:30 AM (Exact Start and End Times Vary)
**SOT COMPONENT GROUP EVENTS**

- Specialty Section Officers Meetings: Carcinogenesis; Immunotoxicology; In Vitro and Alternative Methods; Nanoscience and Advanced Materials; Neurotoxicology; Regulatory and Safety Evaluation; and Risk Assessment
  
  **Room 207A**

- Central States Regional Chapter Breakfast Meeting
  
  **Sheraton Park Hotel Savor at 1855 Restaurant**

- Medical Device and Combination Product Specialty Section Officers Meeting
  
  **Hilton Anaheim Mix Restaurant**

- Midwest Regional Chapter Networking Breakfast
  
  **Anaheim Marriott Elite 3**

- Mixtures Specialty Section Officers Meeting
  
  **Hilton Anaheim Mix Restaurant**

- Reproductive and Developmental Toxicology Specialty Section Officers Meeting
  
  **Room 202B**

- Women in Toxicology Special Interest Group Executive Committee Meeting
  
  **Anaheim Marriott Elite 2**

#### 8:00 AM to 10:45 AM
**SYMPOSIUM SESSIONS**

- Can We Predict and Manage Immune-Related Adverse Events Associated with Cancer Immunotherapy?
  
  **Ballroom C**
  
  **Abstract #: 1015–1019**

- Developmental Toxicity of Per- and Polyfluoroalkyl Substances (PFAS): Current In Vivo Approaches and Application to Human Health Risk Assessment
  
  **Ballroom D**
  
  **Abstract #: 1020–1025**

- Lysosome/Autophagy Dysregulation in Toxicity and Disease
  
  **Room 304C**
  
  **Abstract #: 1026–1031**

- New Data and Tools for Understanding Chemical Distribution In Vitro
  
  **Room 304A**
  
  **Abstract #: 1032–1036**

**WORKSHOP SESSIONS**

- Applicability Domains and Future of Nonanimal Tests for Skin Sensitization
  
  **Room 204B**
  
  **Abstract #: 1037–1041**

- Known Unknowns: Challenges and Approaches for Handling Chemical, Hazard, and Regulatory Uncertainty in Medical Device Safety Assessments
  
  **Room 303A**
  
  **Abstract #: 1042–1046**

- Oligodendrocytes/Schwann Cells: Major Targets in Neurotoxicity and Neurological Diseases
  
  **Room 303C**
  
  **Abstract #: 1047–1052**

- Toxicological Exposure and Risk Assessment of Emissions from 3D Printers
  
  **Room 304A**
  
  **Abstract #: 1053–1058**

Find up-to-date information at [www.toxicology.org/2020](http://www.toxicology.org/2020) | #2020SOT #toxexpo
8:00 AM to 10:45 AM
PLATFORM SESSION •
- Liver Signaling, Disease, and Injury
  Room 204C
  Abstract #: 1059–1066

8:00 AM to 5:00 PM
UNDERGRADUATE DIVERSITY PROGRAM
- Mentor groups attend Annual Meeting sessions and posters, participate in exclusive activities, and celebrate the weekend’s accomplishments
  CC—Various Locations

9:00 AM to 10:45 AM*
POSTER SESSIONS •
*Posters will be displayed from 9:00 am to 4:30 pm, with the author in attendance during the assigned Poster Session in the Exhibit Hall.

- Air Pollution Toxicology
  Poster Board #: P101–P126
  Abstract #: 1067–1092

- POPs
  Poster Board #: P260–P273
  Abstract #: 1212–1225

- Risk Assessment Applications I
  Poster Board #: P589–P617
  Abstract #: 1488–1516

- Risk Assessment Methods I
  Poster Board #: P619–P642
  Abstract #: 1517–1540

- Safety Evaluation of Nonpharmaceutical Products
  Poster Board #: P807–P829
  Abstract #: 1663–1685

- Systems Biology
  Poster Board #: P413–P434
  Abstract #: 1341–1362

9:00 AM to 4:30 PM
SOT TOX PRESENTATION CORNER
- This area will feature short, intimate presentations that provide Training, highlight Opportunities for growth, and foster eXchanges of science and ideas.
  Exhibit Hall

TOXEXPO EXHIBITS
- Visit the 300+ exhibitors for product, service, and career insights.
  Exhibit Hall

9:00 AM to 10:00 AM
EXHIBITOR-HOSTED SESSIONS E•
- Aptuit, an Evotec Company
  Room 206B
- Battelle
  Room 205A
- Eurofins Discovery
  Room 206A
- Lhasa Limited
  Room 205B

9:30 AM to 3:00 PM
RESEARCH FUNDING INSIGHTS
- Representatives from federal agencies are available for individual conversations.
  Room 210C

10:30 AM to 11:30 AM
EXHIBITOR-HOSTED SESSIONS E•
- Charles River
  Room 206B
- Envigo
  Room 205A
- Fraunhofer ITEM
  Room 206A
- ToxStrategies Inc.
  Room 205B

10:30 AM to 12:30 PM
SPECIAL EVENT
- Global Collaboration Coffee
  Room 207C

10:45 AM to 12:30 PM*
POSTER SESSIONS •
*Posters will be displayed from 9:00 am to 4:30 pm, with the author in attendance during the assigned Poster Session in the Exhibit Hall.

- Air Pollution: Biomass
  Poster Board #: P158–P168
  Abstract #: 1118–1128

- Alternatives to Mammalian Models I
  Poster Board #: P443–P472
  Abstract #: 1363–1392

- Biomarkers
  Poster Board #: P301–P341
  Abstract #: 1239–1278a

- Developmental and Juvenile Toxicology
  Poster Board #: P711–P742
  Abstract #: 1590–1621

- Developmental Basis of Adult Disease
  Poster Board #: P749–P769
  Abstract #: 1622–1641a

- Epigenetics
  Poster Board #: P342–P366
  Abstract #: 1279–1303

- Neurodegenerative Disease
  Poster Board #: P523–P550
  Abstract #: 1429–1455a

- Neurotoxicity: Developmental
  Poster Board #: P551–P582
  Abstract #: 1456–1487

- Reproductive Toxicology I
  Poster Board #: P659–P686
  Abstract #: 1541–1568

- Reproductive Toxicology II
  Poster Board #: P687–P707
  Abstract #: 1569–1589

- Respiratory Toxicology
  Poster Board #: P206–P256
  Abstract #: 1161–1211

- Safety Assessment: Pharmaceutical—Drug Discovery
  Poster Board #: P833–P853
  Abstract #: 1686–1706
11:00 AM to 12:30 PM

FEATURED SESSION

A Career in Advancing the Field of Toxicology: A Tribute to Linda S. Birnbaum

Ballroom A

Speakers:
Martin van den Berg, Universiteit Utrecht, Utrecht, Netherlands.

Suzanne E. Fenton, NIEHS/NTP, Research Triangle Park, NC.

Rick Woychik, NIEHS/NTP, Research Triangle Park, NC.

Laurie C. Haws, ToxStrategies Inc., Austin, TX.

11:00 AM to 12:20 PM

ROUNDTABLE SESSION

• Mechanistic Read-Across of Chemical Toxicants Based on Big Data
  Room 204B
  Abstract #: 1719

11:15 AM to 1:00 PM (Exact Start and End Times Vary)

INFORMATIONAL SESSIONS

• Individual, Community-, and Population-Level Environmental-Associated Attributes of Disparate Health Outcomes in Vulnerable Populations
  Room 303A
  Abstract #: 1720

• The Epidemic of Chronic Kidney Disease of Unknown Etiology in Agricultural Communities
  Room 303C
  Abstract #: 1721

11:15 AM to 1:00 PM

WORKSHOP SESSIONS

• Aircraft Cabin Fume Events: Is There a Toxicological Explanation?
  Ballroom D
  Abstract #: 1707–1710

  Ballroom C
  Abstract #: 1711–1714

• Impacts on Human Health of Sunscreen Active Ingredients Used to Filter Ultraviolet Light
  Room 204C
  Abstract #: 1715–1718

11:30 AM to 12:45 PM

IN VITRO TOXICOLOGY LECTURE AND LUNCHEON FOR STUDENTS (TICKET REQUIRED)

Computational Intelligence: Building “Smart Models” for Toxicology in the Era of Big Data

Anaheim Marriott Marquis Center

Lecturer:
Thomas B. Knudsen, US EPA/CCTE, Research Triangle Park, NC.

12:00 Noon to 1:00 PM

EXHIBITOR-HOSTED SESSIONS

• Covance
  Room 206B

• InSphero Inc.
  Room 206A

• Sekisui XenoTech, LLC
  Room 205A

• Simulations Plus, Inc.
  Room 205B
1:00 PM to 2:00 PM

PLENARY SESSION

Precisely Practicing Medicine from 700 Trillion Points of Data
Hall C

Speaker:
Atul Butte, University of California
San Francisco, San Francisco, CA.

“Dr. Butte is a pioneer in the analysis of big data, using these
data to gain new insights into diseases and their treatment.
The promises of precision medicine are dependent on the
appropriate analysis of large datasets. Dr. Butte will tell us
about his group’s efforts to organize and gain insight from
health records, leading to better therapeutic choices. He also
will describe new methods for teaching intelligence, both real
and artificial, for better medical practice.”
—George P. Daston, SOT Vice President and
Scientific Program Committee Chair

1:45 PM to 2:45 PM

EXHIBITOR-HOSTED SESSIONS

- ApconiX Ltd. Room 206A
- Charles River and Corteva Agriscience Room 206B
- Southern Research Room 205A
- WuXi AppTec Room 205B

2:00 PM to 3:15 PM

UNDERGRADUATE CONSORTIUM MEETING

Meeting attendees connected to the Undergraduate Consortium institutions meet with the Undergraduate Consortium Task Force to discuss ways to encourage undergraduates to pursue toxicology careers Room 208A

2:15 PM to 4:30 PM*

POSTER SESSIONS

*Posters will be displayed from 9:00 am to 4:30 pm, with the author in attendance during the assigned Poster Session in the Exhibit Hall.

- Air Pollution: Ozone
  Poster Board #: P129–P153
  Abstract #: 1093–1117
- Air Pollution: PM
  Poster Board #: P171–P202
  Abstract #: 1129–1160
- Alternatives to Mammalian Models II
  Poster Board #: P473–P508
  Abstract #: 1393–1428
- Carcinogenicity
  Poster Board #: P371–P407
  Abstract #: 1304–1340
- Epidemiology and Public Health
  Poster Board #: P773–P793
  Abstract #: 1642–1662
- Medical Devices
  Poster Board #: P287–P299
  Abstract #: 1226–1238

2:15 PM to 2:45 PM

SPECIAL EVENT

- Global Gallery of Toxicology—Representative Attended Exhibit Hall (Near the SOT Pavilion, Booth #1111)

2:15 PM to 3:00 PM

STUDENT AND POSTDOC EVENTS

- Trainee Discussion with Plenary Session Speaker Atul Butte (Ticket Required) Room 202A

3:00 PM to 4:00 PM

MERIT AWARD LECTURE

Unraveling the Molecular Mechanisms of Cannabinoid-Mediated Immune Modulation and Cannabinoid Receptor 2 as a Putative Therapeutic Target
Ballroom A

Lecturer:
Norbert E. Kaminski, Michigan State University, East Lansing, MI.

3:00 PM to 4:30 PM

SYMPOSIUM SESSIONS

- Evolving Technologies for Determination of Biotherapeutic Specificity
  Room 304A
  Abstract #: 1722–1725
- Genome Editing in Drug Discovery: Using the Cas9 Protein to Explore Target-Mediated Toxicity
  Ballroom D
  Abstract #: 1726–1729
### WORKSHOP SESSIONS

<table>
<thead>
<tr>
<th>3:00 PM to 4:30 PM</th>
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<tbody>
<tr>
<td><strong>OVERVIEW—Monday</strong></td>
</tr>
<tr>
<td>Ballroom E</td>
</tr>
<tr>
<td>Abstract #: 1730–1733</td>
</tr>
<tr>
<td>Bringing Advances in Risk Science into Regulatory Decisions: Applying Data-Driven Uncertainty Analysis</td>
</tr>
</tbody>
</table>

| Ballroom C          |
| Abstract #: 1734–1738 |
| Globally Harmonized Guidance for Dose-Response Analysis and Derivation of Health-Based Guidance Values for Chemicals in Food—Part II: Intuitive Demonstrations |

| Room 303A           |
| Abstract #: 1739–1742 |
| Single Cell Applications in Mechanistic Toxicology |

| Room 303C           |
| Abstract #: 1743–1746 |
| The More, the Better? Single Biomarkers, Panels, and/or Composite Biomarkers to Characterize Organ Injury |

| Room 304C           |
| Abstract #: 1747–1750 |
| Variety Is the Life of Spice: The Clinical Toxicology of Synthetic Cannabinoids |

### RESEARCH FUNDING INSIGHTS SESSION

<table>
<thead>
<tr>
<th>3:00 PM to 4:00 PM</th>
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<tbody>
<tr>
<td><strong>Funding 101—Multiple Perspectives on the NIH Grant Process</strong></td>
</tr>
<tr>
<td>Room 207C</td>
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</table>

### EXHIBITOR-HOSTED SESSIONS

<table>
<thead>
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<th>3:00 PM to 4:00 PM</th>
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<tbody>
<tr>
<td><strong>Gradient</strong> Room 206A</td>
</tr>
<tr>
<td><strong>In Vitro ADMET Laboratories Inc.</strong> Room 205A</td>
</tr>
<tr>
<td><strong>MilliporeSigma</strong> Room 205B</td>
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<tr>
<td><strong>Syngene International Limited</strong> Room 206B</td>
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</table>

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<tr>
<th>4:30 PM to 5:30 PM</th>
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</thead>
<tbody>
<tr>
<td><strong>Altasciences</strong> Room 206B</td>
</tr>
<tr>
<td><strong>Biotoxttech and Korea Institute of Toxicology</strong> Room 206A</td>
</tr>
<tr>
<td><strong>CN Bio Innovations Ltd</strong> Room 205A</td>
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<tr>
<td><strong>Instem</strong> Room 205B</td>
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### SOT COMPONENT GROUP EVENTS

<table>
<thead>
<tr>
<th>4:30 PM to 9:30 PM (Exact Start and End Times Vary)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Allegheny-Erie, Lake Ontario, and Michigan Regional Chapters Joint Reception</strong> Fire &amp; Ice Restaurant</td>
</tr>
<tr>
<td><strong>American Association of Chinese in Toxicology Special Interest Group Distinguished Chinese Toxicologist Lecture, Business Meeting, and Reception</strong> Anaheim Marriott Marquis South</td>
</tr>
<tr>
<td><strong>Association of Scientists of Indian Origin Special Interest Group Career Talk with Toxperts</strong> Anaheim Marriott Marquis Northwest</td>
</tr>
<tr>
<td><strong>Association of Scientists of Indian Origin Special Interest Group Reception</strong> Anaheim Marriott Marquis Northwest</td>
</tr>
<tr>
<td><strong>Biological Modeling Specialty Section Meeting/Reception</strong> Anaheim Marriott Platinum 2</td>
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<tr>
<td><strong>Carcinogenesis Specialty Section Meeting/Reception</strong> Anaheim Marriott Platinum 3</td>
</tr>
<tr>
<td><strong>Comparative and Veterinary Specialty Section Mentoring Event</strong> Anaheim Marriott Orange County 1</td>
</tr>
<tr>
<td><strong>Exposure Specialty Section Officers Meeting</strong> Anaheim Marriott nFuse Restaurant</td>
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<tr>
<td><strong>Immunotoxicology Specialty Section Meeting/Reception</strong> Anaheim Marriott Marquis Northeast</td>
</tr>
<tr>
<td><strong>Immunotoxicology Specialty Section Mentoring Event</strong> Anaheim Marriott Marquis Northwest</td>
</tr>
<tr>
<td><strong>Nanoscience and Advanced Materials Specialty Section Meeting/Reception</strong> Anaheim Platinum 8</td>
</tr>
<tr>
<td><strong>Ocular Toxicology Specialty Section Meeting/Reception</strong> Anaheim Marriott Platinum 9</td>
</tr>
<tr>
<td><strong>Pacific Northwest Regional Chapter Reception</strong> Bucca di Beppo</td>
</tr>
<tr>
<td><strong>Risk Assessment Specialty Section Meeting/Reception</strong> Anaheim Marriott Marquis Center</td>
</tr>
<tr>
<td><strong>Southeastern Regional Chapter Reception</strong> The Jazz Kitchen</td>
</tr>
<tr>
<td><strong>Special Interest Group Collaboration Group Meeting</strong> Room 210B</td>
</tr>
<tr>
<td><strong>Specialty Section Collaboration and Communication Group Officers Meeting</strong> Room 203B</td>
</tr>
<tr>
<td><strong>Toxicologists of African Origin Special Interest Group Reception</strong> Anaheim Marriott Grand G</td>
</tr>
</tbody>
</table>
4:45 PM to 6:00 PM
SOT/EUROTOX DEBATE

Individual Toxicity Is the Future of Risk Assessment
Ballroom A

SOT Debater:
Syril D. Pettit, HESI, Washington, DC.

EUROTOX Debater:
Alan R. Boobis, Imperial College London, London, United Kingdom.

Tuesday, March 17

6:00 AM to 7:00 AM
SPECIAL EVENT
• Past Presidents’ 5K Fun Run/Walk (Registration Required)
  Grand Plaza Center Section (Outdoor Space in Front of the CC)

8:00 AM to 10:45 AM
SOCIETY OF TOXICOLOGY AND JAPANESE SOCIETY OF TOXICOLOGY SYMPOSIUM

Oxidative Stress: Mechanisms and Manifestations
Ballroom C

JSOT Speaker:
Yoshito Kumagai, University of Tsukuba, Tsukuba, Japan.

JSOT Speaker:
Yoshiro Saito, Tohoku University, Sendai, Japan.

SOT Speaker:
Alicia R. Timme-Laragy, University of Massachusetts Amherst, Amherst, MA.

SOT Speaker:
Dean P. Jones, Emory University School of Medicine, Atlanta, GA.

SYMPOSIUM SESSIONS
• Cellular Recovery and Resilience: A New Perspective on Toxicity Testing
  Ballroom D
  Abstract #: 1751–1756

• Cyanide as a Chemical Threat: Finding Better Antidotes
  Room 304C
  Abstract #: 1757–1762

• Electronic Cigarettes and Cardiovascular Toxicity: New Friend or Old Foe?
  Room 204B
  Abstract #: 1763–1768

• Environmental Exposure and Health Effects of Organophosphate Esters
  Room 303C
  Abstract #: 1769–1774

• Quantitative and Translational Systems Toxicology: Improving Drug Safety from Preclinical to Clinical Outcomes
  Ballroom A
  Abstract #: 1775–1779

Past Presidents’ 5K Fun Run/Walk
March 17, 2020
6:00 AM
Anaheim, California

Supported by:
IDEXX BioAnalytics

Register at
www.toxicology.org/funrun
8:00 AM to 10:45 AM

WORKSHOP SESSIONS W

- Human-Relevant Carcinogenicity Testing: Tools for Cancer Assessment in 2020 and Beyond
  Room 304A Abstract #: 1780–1785
- Using Human Genetics to Aid in Safety Assessment of Therapeutics
  Room 303A Abstract #: 1786–1791

PLATFORM SESSIONS PL

- Bridging the Translational Gap in Drug Development
  Room 204A Abstract #: 1792–1800
- Investigating Female Reproductive Toxicity
  Room 204C Abstract #: 1801–1810

8:30 AM to 9:30 AM

UNDERGRADUATE EDUCATOR NETWORK MEETING

- All interested in the teaching of undergraduates are welcome.
  Room 210B

9:00 AM to 10:45 AM*

POSTER SESSIONS P

*Posters will be displayed from 9:00 am to 4:30 pm, with the author in attendance during the assigned Poster Session in the Exhibit Hall.

- Computational Toxicology I
  Poster Board #: P359–P397
  Abstract #: 2025–2063
- Ecotoxicology
  Poster Board #: P740–P772
  Abstract #: 2329–2361
- Food Safety/Nutrition
  Poster Board #: P659–P693
  Abstract #: 2258–2292
- Nanotoxicology: In Vitro
  Poster Board #: P464–P498
  Abstract #: 2114–2148
- Nanotoxicology: In Vivo
  Poster Board #: P443–P461
  Abstract #: 2095–2113
- Nanotoxicology: Methodologies and Assessments
  Poster Board #: P501–P519
  Abstract #: 2149–2167
- Natural Products
  Poster Board #: P695–P710
  Abstract #: 2293–2308
- Regulation/Policy
  Poster Board #: P551–P565
  Abstract #: 2193–2207
- Skin and Dermal Toxicity
  Poster Board #: P783–P803
  Abstract #: 2362–2382
- Stem Cell Biology and Toxicology
  Poster Board #: P401–P431
  Abstract #: 2064–2094

9:00 AM to 4:30 PM

SOT TOX PRESENTATION CORNER

- This area will feature short, intimate presentations that provide Training, highlight Opportunities for growth, and foster eXchanges of science and ideas.
  Exhibit Hall

TOXEXPO EXHIBITS

- Visit the 300+ exhibitors for product, service, and career insights.
  Exhibit Hall

9:00 AM to 10:00 AM

EXHIBITOR-HostED SESSIONS E

- Battelle
  Room 205A
- Corning Life Sciences
  Room 206B
- Fraunhofer ITEM
  Room 206A
- Lhasa Limited
  Room 206B

9:30 AM to 3:30 PM

SPECIAL EVENT

- Blood Drive
  Exhibit Hall

9:30 AM to 4:30 PM

RESEARCH FUNDING INSIGHTS

- Representatives from federal agencies are available for individual conversations.
  Room 210C

10:30 AM to 11:30 AM

EXHIBITOR-HostED SESSIONS E

- Charles River and US EPA
  Room 206B
- Stemina Biomarker Discovery
  Room 206A
- Promega Corporation
  Room 206B
- Visikol Inc.
  Room 205A
10:45 AM to 12:30 PM
POSTER SESSIONS

*Posters will be displayed from 9:00 am to 4:30 pm, with the author in attendance during the assigned Poster Session in the Exhibit Hall.

- Autoimmunity/Hypersensitivity
  Poster Board #: P167–P177
  Abstract #: 1869–1879
- Bioinformatics
  Poster Board #: P317–P341
  Abstract #: 2000–2024
- Endocrine Toxicology
  Poster Board #: P179–P206
  Abstract #: 1880–1907
- Immunotoxicity I
  Poster Board #: P101–P132
  Abstract #: 1811–1842
- Inflammation
  Poster Board #: P133–P159
  Abstract #: 1843–1868a
- Kidney
  Poster Board #: P287–P311
  Abstract #: 1975–1999
- Liver I
  Poster Board #: P215–P244
  Abstract #: 1908–1937
- Pesticides
  Poster Board #: P717–P736
  Abstract #: 2309–2328

11:00 AM to 12:00 Noon
DISTINGUISHED TOXICOLOGY SCHOLAR AWARD LECTURE
Endocrine Disruption, Epigenetics, and Developmental Basis of Disease—Looking Back as We Look Forward
Ballroom E

Lecturer:
Shuk-mei Ho, University of Arkansas for Medical Sciences, Little Rock, AR.

11:00 AM to 12:30 PM
TOXICOLOGICAL SCIENCES FEATURED SESSION

NextGen ToxSci: From Journal Improvements to Community Building through Social Media
Room 204C

Speakers:
Laura Van Winkle, University of California Davis, Davis, CA.
Jeffrey M. Peters, Pennsylvania State University, University Park, PA.
Alison Harrill, NIEHS, Research Triangle Park, NC.
Dana C. Dolinoy, University of Michigan School of Public Health, Ann Arbor, MI.
David Crotty, Oxford University Press, New York, NY.

SYMPOSIUM SESSION

- Targeted Protein Degraders: Considerations for Nonclinical Safety Assessment of a New Pharmaceutical Modality
  Room 303C
  Abstract #: 2383–2386

11:00 AM to 12:20 PM
INFORMATIONAL SESSIONS

- Communicating Risk in a (Mis)information-Rich World
  Ballroom C
  Abstract #: 2387
- Current Status and Knowledge Gaps in the Use of Zebrafish in Risk Assessment
  Ballroom D
  Abstract #: 2388

EDUCATION–CAREER DEVELOPMENT SESSION

- A CURE for the Common Classroom: Engaging Students and Faculty in Course-Based Undergraduate Research Experiences to Maximize Academic Success and Productivity
  Room 304C
  Abstract #: 2389
11:30 AM to 2:00 PM (exact start and end times vary)

SOT COMPONENT GROUP EVENTS

- American Association of Chinese in Toxicology Special Interest Group Career Development Workshop
  
  *Anaheim Marriott Orange County 3*

- Cardiovascular Toxicology Specialty Section Meeting/Luncheon
  
  *Room 207C*

- Clinical and Translational Toxicology Specialty Section Meeting/Luncheon
  
  *Room 203B*

- Drug Discovery Toxicology Specialty Section Mentoring Event
  
  *Room 203A*

- Exposure Specialty Section Meeting/Luncheon
  
  *Room 208A*

- Hispanic Organization of Toxicologists Special Interest Group Mentoring Activity
  
  *Anaheim Marriott Grand A*

- Mid-Atlantic Regional Chapter Luncheon
  
  *Morton’s the Steakhouse*

- Northeast Regional Chapter Student Luncheon
  
  *Anaheim Marriott Platinum 7*

12:00 Noon to 1:00 PM

EXHIBITOR-HOSTED SESSIONS

- Agilent Technologies Inc.
  
  *Room 206B*

- AnaBios
  
  *Room 205B*

- ATCC
  
  *Room 206A*

- Cyprotex
  
  *Room 205A*

STUDENT AND POSTDOC EVENT

- Postdoctoral Assembly Luncheon
  
  *Room 201B*

12:30 PM to 1:30 PM

UNDERGRADUATE STUDENT MEETING

- All undergraduate students invited.
  
  *Room 201D*

1:30 PM to 4:15 PM

SYMPOSIUM SESSIONS

- Environmental Carcinogenesis: Effect of Carcinogen Exposure on the Genome and Health Risks
  
  *Ballroom E*  
  
  *Abstract #: 2390–2395*

- Epigenetic Mechanisms of Metal-Induced Cancer Stem Cell–Like Property and Carcinogenesis
  
  *Room 204B*  
  
  *Abstract #: 2396–2401*

- Immune Cell Polarization in Toxicology and Therapeutic Approaches
  
  *Room 304C*  
  
  *Abstract #: 2402–2407*

- Organ to Silicon Chip: Emerging In Vitro and In Silico Tools for Evaluation of Cardiotoxicity
  
  *Room 303C*  
  
  *Abstract #: 2408–2413*

- TaRGET II Consortium: Elucidating Epigenetic Responses to the Environment across Target and Surrogate Tissues
  
  *Ballroom D*  
  
  *Abstract #: 2414–2419*

1:30 PM to 2:00 PM

WORKSHOP SESSIONS

- Genetic Mutations of Manganese Transporters: Clinical Presentation and Neurotoxicity
  
  *Room 303A*  
  
  *Abstract #: 2420–2425*

- Mechanisms and Multiple Exposures: Methods to Tackle Toxicology’s Most Difficult Challenges Using Systematic Review Frameworks
  
  *Ballroom C*  
  
  *Abstract #: 2426–2430*

1:30 PM to 2:30 PM

EXHIBITOR-HOSTED SESSIONS

- InSphero Inc.
  
  *Room 206A*

- MultiCASE, Inc.
  
  *Room 205A*

- SenzaGen AB
  
  *Room 206B*

- WuXi AppTec
  
  *Room 205B*

1:30 PM to 2:50 PM

STUDENT AND POSTDOC EVENT

- Career Exploration through Speed Informational Interviews (Ticket Required)
  
  *Room 201B*

2:15 PM to 4:30 PM*

POSTER SESSIONS

*Posters will be displayed from 9:00 am to 4:30 pm, with the author in attendance during the assigned Poster Session in the Exhibit Hall.

- Animal Models
  
  *Poster Board #: P523–P547*  
  
  *Abstract #: 2168–2192*

- Liver II
  
  *Poster Board #: P245–P281*  
  
  *Abstract #: 1938–1974*

- Risk Assessment Applications II
  
  *Poster Board #: P589–P617*  
  
  *Abstract #: 2208–2236*

- Risk Assessment Methods II
  
  *Poster Board #: P619–P639*  
  
  *Abstract #: 2237–2257*

3:00 PM to 4:00 PM

EXHIBITOR-HOSTED SESSIONS

- Ellegaard Göttingen Minipigs A/S and Marshall BioResources
  
  *Room 205A*

- Lonza
  
  *Room 205B*

- NIEHS
  
  *Room 206B*

- QIAGEN
  
  *Room 206A*
Wednesday, March 18
8:00 AM to 9:00 AM
TRANSLATIONAL IMPACT AWARD LECTURE

Finding Better Cures for Chemical Poisonings: An Unmet Need in Public Health

Ballroom A

Lecturer: David A. Jett, NIH Countermeasures Against Chemical Threats (CounterACT) Program and National Institute of Neurological Disorders and Stroke, Bethesda, MD.

8:00 AM to 10:45 AM
SYMPOSIUM SESSIONS

• Immunosuppressive and Anti-inflammatory Activity of Cannabis and Cannabinoids: Adverse or Therapeutic?
  Ballroom D  Abstract #: 2450–2455

• Resolution of Inflammation in Chemical Toxicity/Tissue Injury: What’s Emerging?
  Room 204C  Abstract #: 2456–2462

• Single Cell Technologies: A Potentially Transformative Tool for Toxicology
  Ballroom C  Abstract #: 2463–2468

WORKSHOP SESSIONS

• Applying Modern Toxicology to Dietary Supplements with Ancient Roots: Botanical Safety in the 21st Century
  Room 303C  Abstract #: 2469–2474

• Automation and Machine-Learning Techniques to Leverage Resources When Conducting a Systematic Review
  Ballroom E  Abstract #: 2475–2480

• In Vitro Microphysiological Systems: Developing Tools to Evaluate Immunotoxicity of Drug Candidates
  Room 304A  Abstract #: 2481–2485

• Sex, Lungs, and Air Pollution
  Room 204B  Abstract #: 2486–2491

REGIONAL INTEREST SESSION

• Protecting Public Health and the Environment during Wildfire Recovery
  Room 303A  Abstract #: 2492–2497

PLATFORM SESSION

• Cancer
  Room 304C  Abstract #: 2498–2505
9:00 AM to 10:45 AM*
POSTER SESSIONS

*Posters will be displayed from 9:00 am to 4:30 pm, with the author in attendance during the assigned Poster Session in the Exhibit Hall.

- **Biological Modeling**
  Poster Board #: P558–P587
  Abstract #: 2928–2957

- **Clinical and Translational Toxicology**
  Poster Board #: P523–P531
  Abstract #: 2898–2906

- **Disposition/Pharmacokinetics**
  Poster Board #: P493–P520
  Abstract #: 2870–2897

- **Education, Ethical, Legal, and Social Issues**
  Poster Board #: P443–P455
  Abstract #: 2822–2834

- **Exposure Assessment/Biomonitoring**
  Poster Board #: P457–P491
  Abstract #: 2835–2869

- **Mechanisms of Arsenic Toxicity**
  Poster Board #: P221–P237
  Abstract #: 2622–2638

- **Metals I**
  Poster Board #: P155–P188
  Abstract #: 2557–2590

- **Metals II**
  Poster Board #: P190–P220
  Abstract #: 2591–2621

- **Neurotoxicity: General**
  Poster Board #: P685–P724
  Abstract #: 3052–3090a

- **Neurotoxicity: Metals**
  Poster Board #: P625–P657
  Abstract #: 2994–3026

- **Neurotoxicity: Pesticides**
  Poster Board #: P659–P683
  Abstract #: 3027–3051

- **Ocular Toxicology**
  Poster Board #: P533–P539
  Abstract #: 2907–2913

- **Oxidative Injury and Redox Biology**
  Poster Board #: P130–P153
  Abstract #: 2534–2556a

9:00 AM to 10:00 AM
EXHIBITOR-HOSTED SESSIONS

- emka TECHNOLOGIES
  Room 206B

- Fraunhofer ITEM
  Room 206A

- PDS Life Sciences
  Room 205A

- WuXi AppTec
  Room 205B

9:30 AM to 3:30 PM
SPECIAL EVENT

- Blood Drive
  Exhibit Hall

9:30 AM to 4:30 PM
RESEARCH FUNDING INSIGHTS

- Representatives from federal agencies are available for individual conversations.
  Room 210C

10:30 AM to 11:30 AM
EXHIBITOR-HOSTED SESSIONS

- Axol Biosciences
  Room 205B

- Charles River
  Room 206B

- Ellegaard Göttingen Minipigs A/S and Marshall BioResources
  Room 205A

10:45 AM to 12:30 PM*
POSTER SESSIONS

*Posters will be displayed from 9:00 am to 4:30 pm, with the author in attendance during the assigned Poster Session in the Exhibit Hall.

- **Biotransformation/Cytochrome P450**
  Poster Board #: P541–P554
  Abstract #: 2914–2927

- **Cell Death Mechanisms**
  Poster Board #: P319–P328
  Abstract #: 2718–2727

- **Chemical Threats and Bioterrorism I**
  Poster Board #: P238–P260
  Abstract #: 2639–2661

- **Chemical Threats and Bioterrorism II**
  Poster Board #: P261–P285
  Abstract #: 2662–2686

- **DNA Damage and Repair**
  Poster Board #: P287–P318
  Abstract #: 2687–2717a

- **Immunotoxicity II**
  Poster Board #: P101–P128
  Abstract #: 2506–2533

- **Safety Assessment: Pharmaceutical—Drug Development**
  Poster Board #: P359–P395
  Abstract #: 2749–2785

9:00 AM to 4:30 PM
SOT TOX PRESENTATION CORNER

- This area will feature short, intimate presentations that provide Training, highlight Opportunities for growth, and foster eXchanges of science and ideas.
  Exhibit Hall

TOXEXPO EXHIBITS

- Visit the 300+ exhibitors for product, service, and career insights.
  Exhibit Hall
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Details</th>
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| 11:00 AM to 12:00 Noon | **EUROTOX BO HOLMSTEDT MEMORIAL AWARD LECTURE**                                               | Understanding Three Fundamental Quantitative Principles Is a Prerequisite for Improving Toxicological Science and Risk Assessment  
**Ballroom E**  
Lecturer: Wout Slob, Rijksinstituut voor Volksgezondheid en Milieu (RIVM), Bilthoven, Netherlands. |
| 11:00 AM to 12:20 PM | **INFORMATIONAL SESSION**                                                                      | Novel Uses of Analytical Platforms for Efficacy/Safety Biomarker Selection to Improve De-risking of Therapeutics  
**Ballroom C**  
Abstract #: 3206 |
| 11:00 AM to 1:30 PM (Exact Start and End Times Vary) | **EDUCATION–CAREER DEVELOPMENT SESSION**                                                      | Next-Generation Toxicologist Training through Innovative Summer Internships  
**Room 303A**  
Abstract #: 3207 |
| 11:00 AM to 1:30 PM (Exact Start and End Times Vary) | **SOT COMPONENT GROUP EVENTS**                                                                 | Ethical, Legal, Forensics, and Societal Issues Specialty Section Meeting/Luncheon  
**Room 207A**  
Occupational and Public Health Specialty Section Meeting/Luncheon  
**Room 208A**  
Regional Chapter Collaboration and Communication Committee Meeting  
**Room 209B**  
Regulatory and Safety Evaluation and Risk Assessment Specialty Sections Joint Mentoring Event  
**Room 207C**  
Women in Toxicology Special Interest Group Mentoring Session with Linda S. Birnbaum (Registration Required)  
**Room 201B** |
| 12:00 Noon to 1:00 PM | **EXHIBITOR–HOSTED SESSIONS**                                                                  | Battelle  
**Room 205A**  
Crown Bioscience  
**Room 205B**  
Covance  
**Room 206B**  
Leadscope—An Instem Company  
**Room 206A** |
| 12:30 PM to 1:30 PM | **PLENARY KEYNOTE MEDICAL RESEARCH COUNCIL (MRC) LECTURE**                                     | Using Luciferase-Based Mouse Reporter Lines to Detect and Track Epigenetic Changes Induced by Environmental Exposures  
**Ballroom A**  
Lecturer: Dame Amanda Fisher, MRC London Institute of Medical Sciences, London, United Kingdom. |
| 1:30 PM to 4:15 PM | **HOT TOPIC SESSION**                                                                          | E-cigarette, or Vaping, Product Use-Associated Lung Injury (EVALI): Outbreak Analysis from Epidemiological, Clinical, Forensic, and Mechanistic Perspectives  
**Ballroom C**  
Speakers: Paul Melstrom, ATSDR, Atlanta, GA.  
Laura E. Crotty, University of California San Diego, San Diego, CA.  
Catherine Dasenbrock, US FDA/ORA/ORS, Cincinnati, OH.  
Ilona Jaspers, University of North Carolina at Chapel Hill, Chapel Hill, NC. |
1:30 PM to 2:30 PM
LEADING EDGE IN BASIC SCIENCE
AWARD LECTURE

Autophagy: A Cellular Adaptive Mechanism and Potential Therapeutic Target for Alcohol- and Drug-Induced Tissue Damage

Ballroom E

Lecturer:
Wen-Xing Ding, University of Kansas Medical Center, Kansas City, KS.

1:30 PM to 4:15 PM
SYMPOSIUM SESSION

• Human Stem Cell-Derived Test Systems as Alternative Approaches for Developmental Neurotoxicity (DNT) Evaluation: Research and Regulatory Perspectives
  Room 204B
  Abstract #: 3208–3213

WORKSHOP SESSIONS

• Improving Our Understanding of Toxicant Metabolism and Cytochrome P450s Using Novel Knockout Models and High-Throughput Methods
  Room 304A
  Abstract #: 3214–3219

• New Frontiers in Dynamic Toxicology
  Ballroom D
  Abstract #: 3220–3225

• Parental Cannabis Exposure and Long-Term Neurobehavioral Deficits in Offspring
  Room 303C
  Abstract #: 3226–3231

PLATFORM SESSION

Immunotoxicity
Room 304C
Abstract #: 3232–3239

2:00 PM to 3:00 PM
STUDENT AND POSTDOC EVENT

• Trainee Discussion with Medical Research Council (MRC) Lecturer Dame Amanda Fisher (Ticket Required)
  Room 202A

2:15 PM to 4:30 PM*
POSTER SESSIONS

*Posters will be displayed from 9:00 am to 4:30 pm, with the author in attendance during the assigned Poster Session in the Exhibit Hall.

• Aryl Hydrocarbon Receptor
  Poster Board #: P347–P351
  Abstract #: 2744–2748

• Cardiovascular Toxicology/Hemodynamics
  Poster Board #: P725–P765
  Abstract #: 3091–3131

• Computational Toxicology II
  Poster Board #: P590–P624
  Abstract #: 2959–2993

• Emerging In Vitro Systems
  Poster Board #: P399–P413
  Abstract #: 2786–2800

• Mixtures
  Poster Board #: P419–P438
  Abstract #: 2802–2821

• PFAS
  Poster Board #: P767–P806
  Abstract #: 3132–3171

• Receptors
  Poster Board #: P330–P345
  Abstract #: 2728–2743

• Tobacco and ENDS Toxicology
  Poster Board #: P819–P852
  Abstract #: 3172–3205

4:30 PM to 11:00 PM (Exact Start and End Times Vary)

SOT COMPONENT GROUP EVENTS

• Dermal Toxicology Specialty Section Meeting/Reception
  Anaheim Marriott Platinum 3

• In Vitro and Alternative Methods Specialty Section Meeting/Reception
  Anaheim Marriott Marquis Northeast

• Inhalation and Respiratory Specialty Section Meeting/Reception
  Anaheim Marriott Marquis Northwest

• Molecular and Systems Biology Specialty Section Meeting/Reception
  Anaheim Marriott Platinum 8

• North Carolina and National Capital Area Regional Chapters Joint Reception
  The Fifth

• Ohio Valley Regional Chapter Reception
  The Cave

• Reproductive and Developmental Toxicology Specialty Section Meeting/Reception
  Anaheim Marriott Marquis Center

• Stem Cells Specialty Section Meeting/Reception
  Anaheim Marriott Platinum 2

• Women in Toxicology Special Interest Group Reception
  Anaheim Marriott Platinum 5
Thursday, March 19

8:30 AM to 11:15 AM

SYMPOSIUM SESSIONS

- Application of RISK21 Framework in Regulatory-Based Decision-Making: From Business Decisions to Prioritization to Risk Assessment
  Room 304A Abstract #: 3240–3245

- Chemical Probes in Toxicology: From Defining Exposures to Identifying Novel Toxicity and Druggable Targets
  Ballroom E Abstract #: 3246–3251

- Express Yourself (or Not . . .): The Nonclinical Safety of Oligonucleotide Therapeutics
  Ballroom C Abstract #: 3252–3256

- Identifying and Modeling Gene-Environment Interactions in Neurological Diseases Associated with Metal Exposure: Challenges and Recent Advances
  Room 303C Abstract #: 3257–3262

- Protecting the Force: Examining the Hazards of Military Service from the Bench and the Battlefield
  Room 303A Abstract #: 3263–3268

8:30 AM to 11:15 AM

WORKSHOP SESSIONS

- Cannabidiol Science, Safety, and Societal Impacts: Where Do We Stand?
  Ballroom D Abstract #: 3269–3274

- Have In Vitro Teratogenicity Assessments Come of Age in the Pharmaceutical Industry?
  Ballroom A Abstract #: 3275–3280

- Immune-Mediated Adverse Drug Reactions: State-of-the-Art Learnings from Preclinical and Clinical Drug Development
  Room 204B Abstract #: 3281–3287

8:30 AM to 11:30 AM

LATE-BREAKING POSTER SESSION

- Topics to be announced by early March 2020
  Hall C

Download the SOT Event App for the most up-to-date schedule.
Anaheim Convention Center Maps—Level One

All Scientific Sessions are taking place in the Anaheim Convention Center. Other select events are taking place at the Anaheim Marriott hotel, as well as venues across the city.

Main Lobby, Plenary Lectures, Registration, Late-Breaking Poster Session, ToxExpo
Level Three
Awards Ceremony, CE Courses, Scientific Sessions
Lobby Level

25 Year (or More) Member Reception; Ancillary, Regional Chapter, Special Interest Group, Specialty Section, and Student/Postdoc Events; Tox ShowDown; Undergraduate Programs