

Co-Hosted by SOT
Hawaii
IUTOX ICTXV 2019

SOT | Society of
Toxicology



IUTOX 15th International Congress of Toxicology

July 15–18, 2019 | Hawaii Convention Center, Honolulu, Hawaii, USA

Final Report

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Meeting Overview



TITLE: The IUTOX 15th International Congress of Toxicology (ICTXV)

DATE: July 15–18, 2019

VENUE: Hawaii Convention Center, Honolulu, Hawaii, USA

THEME: Toxicology Solutions for Global Public, Environmental, and Personal Health

HOSTS: International Union of Toxicology (IUTOX), Society of Toxicology (SOT)

WEBSITE: <https://www.toxicology.org/events/ict/index.asp>

- 957 Attendees
- 8 Continuing Education Courses
- 4 Keynote Lectures
- 20 Symposia
- 3 Trainee Sessions
- 652 Poster Presentations
- 48 Platform Presentations
- 18 Exhibitors

Meeting Summary

Aloha, colleagues!

Thanks in large part to the members of our planning committees, we were pleased to bring a fantastic scientific program to Honolulu, Hawaii, for the 15th International Congress of Toxicology (ICTXV). "Aloha" is more than a greeting or farewell. One of its meanings is "connectedness." At this triennial global conference, the theme of "Toxicology Solutions for Global Public, Environmental, and Personal Health" brought together 957 scientists in academia, government, and industry from East and West, North and South, to renew existing and foster new connections and to learn about the latest developments in toxicological science and regulation.

The Society of Toxicology (SOT) was pleased to partner with the International Union of Toxicology (IUTOX) to host the first ICT held in the United States since ICTVI in 1995. The production of this meeting reflects the hard work and countless hours from our volunteers in creating an expansive program and an environment both welcoming and educational in which presenters from around the globe informed their peers of toxicological challenges and solutions applicable to their own countries and regions and beyond. The SOT was glad to uphold the ICT tradition of providing educational and capacity-building opportunities for all toxicologists by providing expertise through a scientific conference that recognizes the needs of scientists throughout our global community. The inclusive and diverse program highlighted excellence in the science and practice of toxicology around the globe, balancing interests of different countries and world regions:

- Nearly 60% of session speakers from outside of the US, representing 22 countries
- 45% of Symposia and Continuing Education presentations made by women
- 38% of Poster and Platform presenters from countries where toxicology is underrepresented
- Abstract submissions represented authors from a total of 58 countries
- IUTOX and SOT provided nearly 50 travel awards to attend
- SOT provided two days of lunch vouchers to those from countries where toxicology is underrepresented in order to help offset the cost of attendance

Thank you to our generous sponsors and exhibitors for providing additional content and making the meeting experience that much more enjoyable for all attendees. We hope to see you somewhere in the world in 2020!

Sincerely,



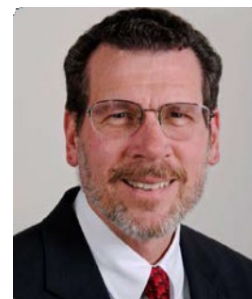
William Slikker Jr.
ICTXV Organizing
Committee Chair



Ivan Rusyn
ICTXV Scientific Program
Committee Chair



Peter Goering
ICTXV Continuing Education
Committee Chair



Program Overview



Monday, July 15, 2019

Exhibitor Set-Up 8:00 AM–4:00 PM
Continuing Education Courses 9:00 AM–11:30 AM
[Separate Registration Required](#)
Lunch and Networking Time 11:30 AM–2:30 PM
Continuing Education Courses 2:30 PM–5:00 PM
Opening Ceremony 5:00 PM–6:00 PM
Deichmann Lecture: Linda Birnbaum 6:00 PM–7:00 PM
Welcome Reception in Exhibit Hall 7:00 PM–8:30 PM

Tuesday, July 16, 2019

Keynote Lecture: Peter Warner 8:00 AM–8:50 AM
Scientific Symposia 9:00 AM–11:00 AM
Exhibitor-Hosted Sessions 11:30 AM–12:30 PM
Soft Skills Workshop 11:30 AM–1:20 PM
[Separate Registration Required](#)
Exhibit Hall Open 12:00 Noon–6:30 PM
Exhibitor-Hosted Sessions 1:00 PM–2:00 PM
Scientific Symposia 2:30 PM–4:30 PM
Poster Session 1 and Refreshments in Exhibit Hall
4:30 PM–6:30 PM

Wednesday, July 17, 2019

Keynote Lecture: Christopher Austin 8:00 AM–8:50 AM
Scientific Symposia 9:00 AM–11:00 AM
Perspectives of Women in Toxicology 11:00 AM–12:30 PM
Exhibit Hall Open 12:00 Noon–6:30 PM
IUTOX General Assembly and Lunch 12:00 Noon–5:00 PM
[Open to IUTOX Member Society Leaders Only](#)
Find Your Mentor 12:30 PM–1:20 PM
Scientific Symposia 2:30 PM–4:30 PM
Poster Session 2 and Refreshments in Exhibit Hall
4:30 PM–6:30 PM
Gala Dinner and Reception 7:00 PM–10:00 PM
[Separate Registration Required](#)

Thursday, July 18, 2019

Keynote Lecture: MOA vs. AOP Debate 8:00 AM–9:15 AM
Platform Presentations 9:30 AM–11:00 AM
Platform Presentations 11:00 AM–12:30 PM
IUPHAR-IUTOX Exchange Session 12:30 PM–2:30 PM
Scientific Symposia 2:30 PM–4:30 PM
Closing Ceremony 4:30 PM–5:30 PM

Schedule At-a-Glance

Monday, July 15					Tuesday, July 16					Wednesday, July 17					Thursday, July 18					
8:00 AM	Separate Registration Required to Attend Continuing Education Courses				8:00 AM	Keynote Lecture: Peter Warner Challenges in Global Health: Innovative Discovery and Translational Strategies (Kalakaua Ballroom)				8:00 AM	Keynote Lecture: Christopher Austin The National Center for Advancing Translational Sciences: Catalyzing Translational Innovation in Rare Disease Research (Kalakaua Ballroom)				8:00 AM	Keynote Lecture: MOA vs. AOP Debate Mechanisms vs. AOP: Does It Matter for the Use of the Mechanistic Data in Decision-Making? (Kalakaua Ballroom)				
9:00 AM					9:00 AM		SYM02: International Efforts to Ensure Global Food Safety: Incorporating Advanced Toxicological Sciences in Food Risk Assessment (Room 316)			9:00 AM		SYM10: Effects of Environmental Mixture Exposure on Brain Development and Function Based on Epidemiological, <i>In Vivo</i> , and <i>In Vitro</i> Studies (Room 313)			9:00 AM					
10:00 AM	CE AM01: Applications of Chemical Risk Assessment in Establishing Food Safety Standards (Room 313)	CE AM02: Immunotoxicology Hazard Identification Using Novel <i>In Vitro</i> Methods (Room 312)	CE AM03: Recent Developments in Adult and Developmental Neurotoxicity Testing for Regulatory Assessment (Room 315)	CE AM04: Understanding Translational Biomarkers: Science and Qualification (Room 316)	10:00 AM	SYM01: Emerging Mechanisms of Chemical Teratogenesis (Room 312)		SYM03: Lysosomes: Key Regulators of Inflammation and Life or Death of a Cell (Room 313)	SYM04: Systemic and Functional Impacts of Maternal Pulmonary Nanomaterial Exposures on the Offspring (Room 315)	10:00 AM	SYM09: Clinical and Mechanistic Aspects of Drug-Induced Liver Injury (Room 316)			SYM11: Immunotoxicity Associated with Exposure to Nanomaterials (Room 312)	SYM12: The Carcinogenicity of Hexavalent Chromium: A Global Public and Environmental Health Concern (Room 315)	10:00 AM	PL01: Alternatives to Animal Testing (Room 312)	PL02: Immunotoxicology (Room 315)	PL03: Metals (Room 316)	PL04: Risk and Safety Evaluation (Room 313)
11:00 AM					11:00 AM					11:00 AM						11:00 AM	PL05: Computational Toxicology (Room 315)	PL06: Nanotoxicology (Room 312)	PL07: Neurotoxicology (Room 316)	PL08: Reproductive/Dev Toxicology (Room 313)
12:00 PM	Lunch and Networking on Own				12:00 PM	Soft Skills Workshop (Room 312) Separate Registration Required		Exhibitor-Hosted Sessions (Room 317B, 318A)		12:00 PM	Perspectives of Women in Toxicology (Room 312)		IUTOX General Assembly (Room 319) 12:00 Noon–5:00 PM See Program for Details		12:00 PM	IUPHAR IUTOX Exchange Session Precision Medicine and ADME-Targets (Room 312)				
1:00 PM					1:00 PM	Exhibitor-Hosted Sessions (Room 318B)		1:00 PM	Find Your Mentor (Room 317A)											
2:00 PM					Exhibit Hall Open 12:00 Noon–6:30 PM				2:00 PM	Exhibit Hall Open 12:00 Noon–6:30 PM										
3:00 PM	CE PM05: Big Data Analytics in the Era of the 21st Century of Toxicology (Room 315)	CE PM06: Epigenetics and Toxicology: Overview and Advances in Methodology (Room 316)	CE PM07: New Risk Assessment Approaches for Reproductive and Developmental Toxicology (Room 312)	CE PM08: What Is an Adverse Effect for Human Health: Defining Adversity in Risk/Safety Assessments (Room 313)	3:00 PM	SYM05: Concerns of Herbal Product-Induced Toxicity (Room 315)	SYM06: Emerging CRISPR Applications in Environmental Health Sciences and Toxicology (Room 313)	SYM07: Epigenetic Biomarkers of Exposure to Environmental Carcinogens (Room 312)	SYM08: New Approach Methodologies: A Global Perspective (Room 316)	3:00 PM	SYM13: Acute, Chronic, and Long-Term Pesticide Effects: Mechanisms of Actions, Epidemiological Data, Priority Areas for Research (Room 313)	SYM14: Collaborative Approaches to Proactively Advance 3Rs in Nonclinical Drug Development (Room 312)	SYM15: Empowering Toxicology and Environmental Health Research to Address Disasters and Emerging Threats (Room 315)	SYM16: Out of the Box: Contribution of the Immune System to Organ Toxicity (Room 316)	3:00 PM	SYM17: Applying the Key Characteristics Paradigm in Hazard Identification and Risk Assessment (Room 313)	SYM18: Biomarker Qualification: Accelerating Drug Development by Enabling the Use of Novel Diagnostic and Safety Biomarkers (Room 312)	SYM19: Leveraging Zebrafish to Support Global Toxicology Challenges (Room 316)	SYM20: Recent Trends in Research on Arsenic Toxicity (Room 315)	
5:00 PM	Opening Ceremony (Kalakaua Ballroom)				5:00 PM	Poster Session 1 and Refreshments (Exhibit Hall)				5:00 PM	Poster Session 2 and Refreshments (Exhibit Hall)				5:00 PM	Closing Ceremony (Kalakaua Ballroom)				
6:00 PM	Delchmann Lecture: Linda Birnbaum Human Health and the Environment: Global is Local <i>is</i> Personal (Kalakaua Ballroom)				6:00 PM					6:00 PM					6:00 PM					
7:00 PM	Welcome Reception (Exhibit Hall)				7:00 PM					7:00 PM	Gala Dinner and Reception (Convention Center Rooftop Garden) Separate Registration Required				7:00 PM					
8:00 PM					8:00 PM					8:00 PM										
9:00 PM					9:00 PM					9:00 PM										

Committees

ICTXV Organizing Committee

**COUNCIL CONTACT*

William Slikker Jr., *CHAIR*

Richard Brown, *WHO REPRESENTATIVE*
Lorrene A. Buckley
Michael J. Carvan III*

Patricia E. Ganey*
Dori R. Germolec
Peter L. Goering

Lois D. Lehman-McKeeman
Ivan Rusyn
Judith T. Zelikoff

ICTXV Continuing Education Committee

Peter L. Goering, *CHAIR*
Dori R. Germolec, *CO-CHAIR*

Syed F. Ali
Maria Lucia Zaidan Dagli
Luz Maria Del Razo

Na Guan
Elizabeth A. Martin
Orish Ebere Orisakwe

Dieter Franz Schrenk
Takeki Uehara
Vishal S. Vaidya

ICTXV Giving Initiatives for International Funding of Toxicology (GI²FT) Committee

Lois D. Lehman-McKeeman, *CHAIR*
John A. Wisler, *CO-CHAIR*

Daniel Acosta Jr.
Lauren M. Aleksunes

Michael Aschner*
Norbert E. Kaminski

K. S. Rao
Takemi Yoshida

ICTXV Global Public Relations Committee

Judith T. Zelikoff, *CHAIR*
Orish Ebere Orisakwe

Mary Gulumian
Akihiko Hirose

Daam Saatachurian
Mariana Matera Veras

ICTXV Scientific Program Committee

Ivan Rusyn, *CHAIR*
Peter N. Di Marco, *CO-CHAIR*
Peter L. Goering, *CO-CHAIR*

Silvia B. M. Barros
Nursen Basaran
Emanuela Corsini
Claude Emond

Lijie Fu
Mary Gulumian
Keon Wook Kang
Yoshito Kumagai Sr.

Ofelia A. Olivero
Betzabet Quintanilla-Vega
William Slikker Jr., *ICTXV CHAIR*
M. Wahajuddin

ICTXV Social and Cultural Program Committee

Lorrene A. Buckley, *CHAIR*

Patrick Allard
Nursen Basaran
Alfredo Gallegos Torres

Arlean M. Rohde
María Carmen Rubio-Armendáriz

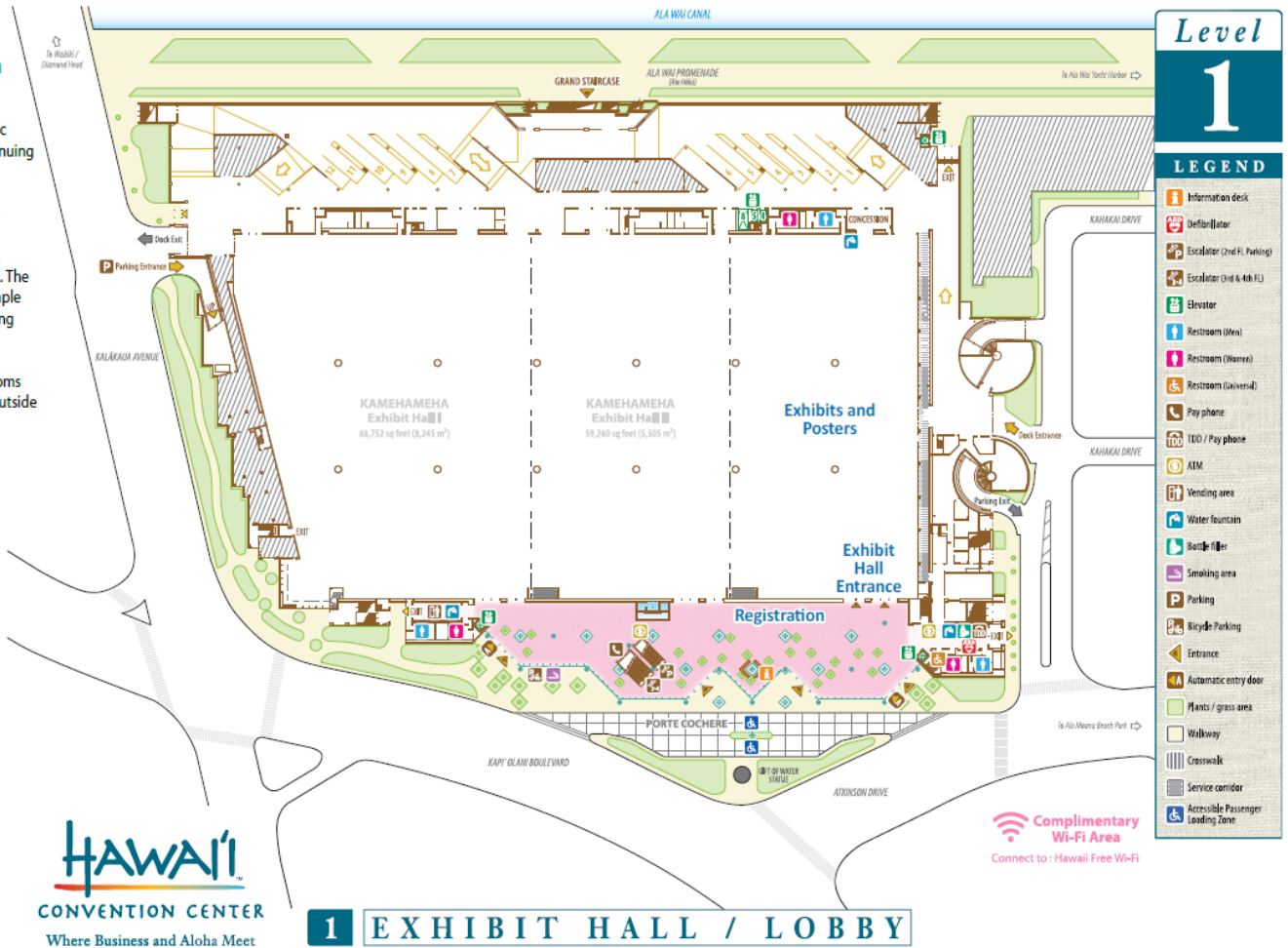
Monika A. Ward
W. Steven Ward
Grushenka H. I. Wolfgang

Venue

Hawaii Convention Center Map—Level 1

Hawaii Convention Center

The ICTXV Scientific Sessions and Continuing Education courses will be held in the Hawaii Convention Center located at 1801 Kalakaua Ave, Honolulu, HI 96815. The center provides ample space for networking opportunities both inside the air-conditioned rooms and on the many outside verandas.



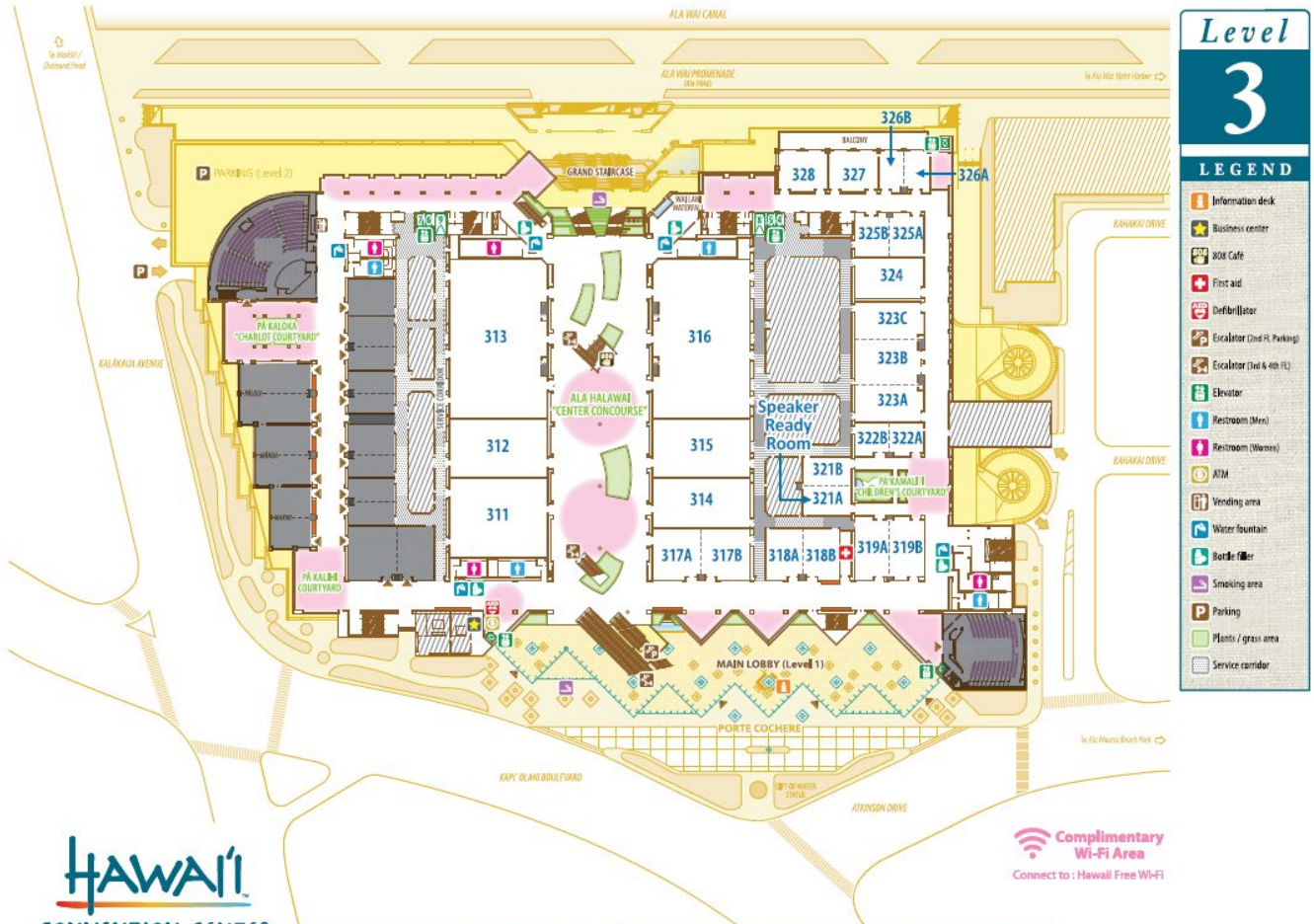
1 EXHIBIT HALL / LOBBY

HAWAII
CONVENTION CENTER
Where Business and Aloha Meet

Complimentary
Wi-Fi Area
Connect to : Hawaii Free Wi-Fi

Venue

Hawaii Convention Center Map—Level 3



HAWAII
CONVENTION CENTER
Where Business and Aloha Meet

Complimentary Wi-Fi Area
Connect to : Hawaii Free Wi-Fi

3 MEETING ROOM / THEATERS

Call for Proposals

A call for proposals was sent to all SOT members and IUTOX Member Societies in May 2017.

All completed submissions were reviewed by the Scientific Program and Continuing Education Committees, who worked closely with IUTOX and other societies to create an inclusive and diverse program that highlighted excellence in science and practice of toxicology around the globe.

Each symposium was scheduled for 120 minutes in length and included four speakers. Sessions accepted for the Scientific Program of ICTXV were announced at the SOT Annual Meeting in San Antonio, Texas in March 2018.

The following is a list of criteria that the Committees used to evaluate proposals.

Criteria for evaluation of the Scientific Symposia for ICTXV:

1. Scientific excellence of the proposed individual talks and the session overall.
2. Relevance of the topic of the Symposium to the overall theme of ICTXV, "Toxicology Solutions for Global Public, Environmental, and Personal Health."
3. Balance of the scientific content with respect to the utility and relevance of the information presented for improving human and environmental health in countries with both robust and developing research and regulatory enterprises.
4. Speaker diversity with respect to the geographical area represented, gender, and sector (government, industry, academia, other).
5. Availability of support for speaker travel to ICTXV. [This criterion is not a requirement, but a strong encouragement.]

Criteria for evaluation of the Continuing Education Course Proposals for ICTXV:

1. Scientific excellence and educational content of the individual talks and the session overall.
2. Relevance of the topic of the Continuing Education course to the overall theme of ICTXV -, "Toxicology Solutions for Global Public, Environmental, and Personal Health."
3. Balance of the scientific content with respect to the utility and relevance of the information presented for improving human and environmental health in countries with both robust and developing research and regulatory enterprises.
4. Speaker diversity with respect to the geographical area represented, gender, and sector (government, industry, academia, other).
5. Availability of support for speaker travel to ICTXV. [This criterion is not a requirement, but a strong encouragement.]

Dates and Activities

Submission opened in June 2017, and proposals were accepted through December 31, 2017.

Session Proposals

- 75 Symposia
- 24 Continuing Education

Accepted

- 20 Symposia
- 8 Continuing Education

Due to the number of proposals received, 20 symposia were slated versus the originally planned 15.

Call for Abstracts



Topic	Total Posters
Air pollution	26
Alternatives to animal models	31
Biomarkers	28
Carcinogenesis	20
Cardiovascular toxicology	18
Clinical and translational toxicology	15
Computational toxicology, modeling, and kinetics	15
Ecotoxicology	18
Endocrine active compounds	19
Epidemiology and Public Health	21
Epigenetics	16
Exposure assessment	18
Food safety/Nutrition	36
Genotoxicity and mutagenesis	16
Immunotoxicology	20
Kidney	9
Liver	32
Metabolism of drugs and chemicals	17
Metals	33
Mixtures	8
Nanotoxicology	39
Neurotoxicology	46
Other	24
Persistent Organic Pollutants	20
Pesticides	21
Reproductive, developmental, and juvenile toxicology	26
Respiratory Toxicology	13
Risk Assessment	24
Safety assessment	15
Skin	8
	652
<i>(total represents accepted minus withdrawals)</i>	

Dates and Activities

- Abstract submissions were accepted from August 30 until **November 30, 2018**
- Late-breaking abstract submissions closed **March 25, 2019**
- **599** abstract submissions
- **568 (95%)** abstracts accepted

Late-Breaking Abstract Submission

- **192** abstract submissions
- **179 (93%)** abstracts accepted

Total submissions: 791

Total acceptance: 747

Final Program

The ICTXV Final Program was delivered to attendees by email in early July 2019 and posted on the [ICTXV website](#) along with the full [meeting schedule](#). The Final Program included all poster, platform, Symposia, and Continuing Education abstracts as well as information regarding schedule, registration, venue, and social programming and was available through the event app.

IUTOX 15th International Congress of Toxicology
July 15-18, 2019 | Hawaii Convention Center, Honolulu, Hawaii, USA

Final Program

General Information

Registration

The ICTXV Registration Desk is located in the main lobby of the Hawaii Convention Center near the Exhibit Hall entrance.

Registration Hours

Sunday	8:00 AM-6:00 PM
Monday	7:00 AM-5:00 PM
Tuesday	7:00 AM-5:00 PM
Wednesday	7:00 AM-5:00 PM
Thursday	7:00 AM-12:30 PM

Early Badge Pick-Up

Early registration badge pick-up will be available for attendees staying at the Hilton Hawaiian Village Waikiki Beach Resort and Ala Moana by Mauna hotels. Early pick-up will be on Sunday, July 14 from 11:00 AM-1:00 PM in the Kona Tower Lobby (Ala Moana) and near the front desk (Hilton).

Speaker Ready Room

The Speaker Ready Room is located in Convention Center room 321. Once in Honolulu, all presenters should visit the Speaker Ready Room to upload and view their presentation to ensure that everything is working properly. The Speaker Ready Room is staffed with experts available to answer any presentation-related questions and address any presentation concerns. Presentations should be loaded and previewed in the Speaker Ready Room—visit the Scientific Session rooms—at least 30 minutes prior to the session start times.

Speaker Ready Room Hours

Sunday	1:00 PM-5:00 PM
Monday	8:00 AM-5:00 PM
Tuesday	7:00 AM-5:00 PM
Wednesday	7:00 AM-5:00 PM
Thursday	7:00 AM-12:30 PM

Photography Policy During Scientific Sessions

Photography of scientific presentations is prohibited without advance specific consent of the presenter(s)/author(s). Session Chairs are asked to strictly enforce this policy and individuals who do not comply will be asked to leave the session. In addition, cameras and recording devices are prohibited in the Exhibit Hall.

First Aid and Security

The Hawaii Convention Center has equipped each meeting room with a beige-colored house phone for use in case of an emergency. If you need medical or security assistance, pick-up the house phone and dial "911" for Security, or dial your room number.

Food Services

The 808 Coffee Cafe is located on the 3rd floor meeting level of the Convention Center. 808 Coffee Cafe features snacks and a selection of coffees from Hawaii. There is the only major coffee growing region in the U.S. This includes a variety of popular Kona coffees, as well as the wonderful flavors of coffees grown on Kauai, Maui, and the North Shore of Oahu.

Child Care Services

The congress headquarters hotel (Hilton Hawaiian Village) offers child care services in-house for the convenience of the attendees through [Camp Funzies](#), featuring a program of Hawaii-centric children's activities. Other child care options include [Lama Lani Kids](#) and [Kali Simps GoodieKatie](#) is an international organization serving the Honolulu area with staff who can care for children or adults.

Nursing Pod

The Hawaii Convention Center (HCC) offers a private, comfortable, and clean ADA compliant Mamama lactation pod. The pod is spacious, secure and offers a 60" laminated and grab bars for easy wheelchair access. The pod includes the following features:

- Secure access with Mamama app or access code
- Two benches
- Dual outlet and USB port
- Shelf, mirror, and coat hook
- Ceiling vents and exhaust fan
- Occupancy activated lighting

To unlock, users may download the Mamama app or use HCC's house phone (located beside the pod) and dial "911" to request for the access code. For more information about the Mamama app, click [HERE](#).

Currency Exchanges

The American Dollar is the only acceptable form of payment in the United States. The Hawaii Convention Center does not offer Currency Exchange. The nearest bank locations to the convention center are:

First Hawaiian Bank (Kapolei Branch) 1580 Kapolei Blvd. Honolulu, HI 96814 808.943.4437	American Savings Bank (Kapolei Branch) 1600 Kapolei Blvd. Honolulu, HI 96814 808.943.2802	Bank of Hawaii (Kapolei Branch) 1401 Kapolei Blvd. Honolulu, HI 96814 808.942.0111
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Credit Cards & Travelers Checks

Visa, Mastercard, American Express, Discover Card, and Traveler's Checks are widely accepted at hotels, department stores, shops, and restaurants.

ATM

There are ATMs located in the convention center lobby near the Kamehameha Exhibition Hall 3 and alongside the escalator fronting Kamehameha Exhibition Hall 2. An alternative ATM is located on Level 1 next to the Business Center.

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To view session details on the go, download the ICTXV app from the Apple or Android stores by searching ICTXV.

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Continuing Education Abstracts

AM01: Application of Chemical Risk Assessment in Establishing Food Safety Standards

AM01-01 Risk Assessment of Food Additives and Chemical Contaminants

Geoffrey Shandley, Cape Peninsula University of Technology, Cape Town, South Africa

Based on the Principles and Methods for the Risk Assessment of Chemicals in Food (published as Environmental Health Criteria 240), ICFCA performs safety evaluations for additives and chemical contaminants in food. The acceptable daily intake (ADI) for food additives and pesticide residues (PI) for chemical contaminants established by ICFCA are used by CODEX Alimentarius Commission to set the maximum residue limits (MRLs). The procedure of ICFCA evaluations are required to be science-oriented, consistent and transparent. This lecture aims to provide the audience a comprehensive understanding on how ICFCA establishes guidance values and makes safety recommendations. For chemical contaminants, safety data mainly come from published literature. Epidemiological data are often utilized for hazard identification and sometimes for hazard characterization. In the absence of potency estimates, the margin of exposure approach can be used for carcinogenic chemicals. Recent examples will be given to demonstrate how risk assessment principles are applied by ICFCA in conducting safety evaluations and making safety recommendations.

AM01-02 Risk Assessment of Veterinary Drug and Pesticide Residues in Food

Alan R. Barcha, Imperial College London, London, United Kingdom

When setting maximum residue limits (MRLs) for residues of veterinary drugs and pesticides in food, the Codex Alimentarius Commission relies upon risk assessments performed by ICFCA and JMPR. ICFCA and JMPR risk assessments are performed using the established paradigm of hazard identification, hazard characterization, exposure assessment and risk characterization. Much of the necessary data are provided by sponsors, but all relevant published information and publicly available data are reviewed. Hazard identification of residues are most often characterized from studies in experimental animals, subsequent data from non-animal methods, although limited to data, is encouraged. Hazard characterization includes consideration of any available mechanistic data and is based on a weight of evidence approach. In addition to toxicological hazards, ICFCA assesses potential microbiological hazards and this is now being routinely undertaken by JMPR. Both JMPR and ICFCA characterize acute and chronic toxicological and microbiological risks and is incorporating toxicology data into their risk assessments. In some instances, a pesticide or a veterinary drug is longer supported by a commercial sponsor, but it still fulfils an important agricultural function. ICFCA and JMPR have developed decision trees enabling such situations to be addressed.

AM01-03 The Key to Risk Assessment: Dose-Response Analysis

Matthew Williams, Centers for Disease Control and Prevention, Cincinnati, OH, United States of America

Dose-response analysis is a central to establishing food safety standards for chemical contaminants, and a systematic approach is necessary to ensure transparency and reproducibility in ICFCA risk assessments. This presentation describes the updated dose-response standards given by the recently commissioned RMD report committee on dose-response analysis. Rather than speak the technical details of the report, this lecture will be a series of case studies describing the specific choices data sets used in past ICFCA assessments to point out similarities and differences between the dose-response analyses when determining acceptable daily intakes (ADIs) and tolerance intakes (TIs). This will outline the open communication recommendations for the use of modern dose-response methods, including model averaging. Bayesian approaches, and the available software for these methodologies. An attendee can expect to

AM01-04 Dietary Exposure Assessment of Chemicals in Food

Peter Cossiga, Institute of Environmental Science and Research Limited, Christchurch, New Zealand

Within the risk assessment paradigm (hazard identification, hazard characterization, exposure assessment and risk characterization), exposure assessment is often the main challenge. Dietary exposure assessment combines information on food consumption and residue/adverse/contaminant concentrations in food. Both of these inputs vary considerably between countries and even between different regions of the same country. Dietary exposure estimation may also consider acute exposure, whereas the concern is the coincidence of high chemical concentrations with high food consumption levels, chronic exposure, where the concern is the ongoing, habitual patterns of chemical concentrations and food consumption. The work of ICFCA and JMPR covers the range of chemicals added to foods or present in foods as undesirable contaminants and is concerned with acute and chronic dietary exposure at a country or sub-country level, as well as the broader international level. This lecture will review the data sources and techniques that underpin dietary exposure assessment at ICFCA and JMPR and will highlight the potential role of exposure assessment in connecting health-based guidance values, such as acceptable daily intakes, to food standards, such as maximum residue levels.

AM02: Immunotoxicology Hazard Identification Using Novel In Vitro Methods

AM02-01 Approaches and Challenges for Assessing Unintended Cytokine Release by Novel Protein Therapeutics

Melanie Fost, Amgen Inc., Thousand Oaks, CA, The United States of America

The TNF α 14 cytokine storm incident in 2006 highlighted the need for accurate prediction of unintended immunomodulation by novel protein therapeutics prior to first administration in humans, particularly for monoclonal antibodies (mAbs) that target receptors expressed on immune cells. A variety of in vitro cytokine release assays (CRA) have been developed to screen for hazard identification of unintended cytokine release. Typically these assays use either human whole blood or peripheral blood mononuclear cells (PBMC) to measure the release of inflammatory cytokines. While several different CRA platforms are commonly chosen for screening approaches, no single approach has been identified a "gold standard" or preferred assay platform. The mechanism of action of a therapeutic, the expression pattern of its target, the cell types involved, and environmental signals can all impact the suitability of a CRA platform for the prediction cytokine release risk for a particular therapeutic mAb. In this session, we will review the key aspects of development of a CRA and the challenges for the translation of in vitro cytokine detection to cytokine release potential in humans.

AM02-02 Immunotoxicological Profiling of Chemicals Using Novel In Vitro Assays

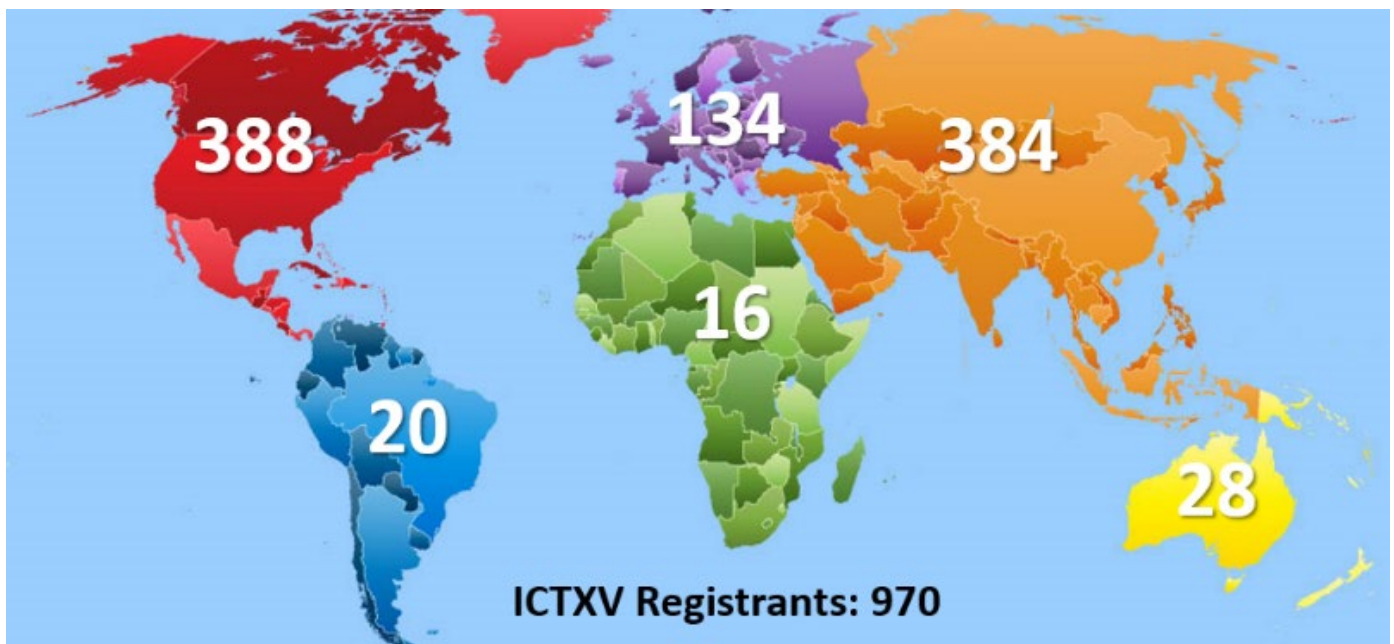
Satishgita Tothava, Tohoku University Graduate School of Medicine, Sendai, Japan

There is no gold standard to predict immunotoxicity of chemicals. However, there is accumulating evidence of immunotoxicity in humans following exposure to various environmental agents such as anti-cancer antibodies. We established a luciferase reporter assay system, the Multi-ImmunoToxic Assay (MITA), which can detect the immunomodulatory activities of various chemicals. In our study, 2 and 8 μ M in Jurkat T cells (2H4, L1b and L1b + 8 in THP1 monocyte cells (THP1-C17). We previously reported that MITA correctly reflected the change in mRNA of human whole blood cells treated with immunosuppressive drugs. We examined the effect of various chemicals on the immune system using the MITA. We established a risk assessment protocol for immunotoxicity using the MITA. We analyzed the effect of 40 chemicals based on the OECD for their effects on L1b and L1b + 8 promoter activities and the prediction from the L1b-L1b could clearly identify into a 6-cluster solution with unique immunotoxic properties. Since each cluster

Registration

Registration Rates:			
	Early Bird (By Apr. 15)	Standard (Apr.16 to May 31)	Final (After June 1)
Full Registrant	\$650	\$700	\$750
Student Registrant	\$250	\$300	\$350
Guest (Nonscientist)	\$125	\$125	\$125
ICTXV Gala and Reception Ticket:			
Gala Dinner	\$125	\$125	\$125
Continuing Education Courses* (AM and PM)			
	Early Bird (By Apr. 15)	Standard (Apr.16 to May 31)	Final (After June 1)
Full Registrant	\$175 each	\$225 each	\$275 each
Student Registrant	\$75 each	\$125 each	\$175 each

*Individuals from developing countries were eligible for a \$25 fee discount for CE courses.



Registrants

The ICTXV had 957 registrants. The full registrant list is provided as attachment 4.

Registrants by Country (*represents total registrants after cancellations*)

Country	Registrant Type						
	Exhibitor	Full	Guest	IUTOX Travel Awardee	Student	Speaker	TOTAL
ARGENTINA		1				1	2
AUSTRALIA		14	1		3	2	20
BELGIUM		2					2
BRAZIL		2	2	2		1	7
CANADA	1	11			3	6	21
CHILE		3			1		4
CHINA	2	59					61
COLOMBIA		4	1		2		7
CROATIA		1					1
CZECH REPUBLIC					5		5
DENMARK		1				2	3
FRANCE		5			3	3	11
GERMANY		11	1		3	3	18
GREECE						1	1
HONG KONG		4			1		5
INDIA		2			3	3	8
ITALY		7			1	5	13
JAPAN	1	114	6		17	8	146
KAZAKHSTAN		1					1
LUXEMBOURG		1					1
MALAYSIA		3					3
MEXICO		3	1	2	13		19
NETHERLANDS		2			1	5	8
NEW ZEALAND		3	1		3	2	9
NIGERIA		2			3		5
NORWAY		2				1	3
PORTUGAL		5			1	1	7
ROMANIA					1		1
RUSSIA		1			1		2
SAUDI ARABIA		1					1
SERBIA			1		2	1	4
SINGAPORE		1					1
SOUTH AFRICA		3			1	4	10
SOUTH KOREA		62				38	102
SPAIN		6			2	1	9
SWEDEN		8	1		4	2	15
SWITZERLAND		4	1		1	3	9
TAIWAN		21			7		28
THAILAND		5			1	2	8
THE NETHERLANDS		1					1
TURKEY		1	1		1	1	4
UKRAINE		3					3
UNITED KINGDOM	2	12	1		4	7	26
UNITED STATES	6	226	15		52	43	342
TOTAL	12	618	33	17	175	102	957

Dates and Activities

- Online registration, forms, and housing were available in **August 2018**

Deadlines

- Early-Bird Registration: **April 15, 2019**
- Advance Registration: **May 31, 2019**

Registration Materials




Lanyard:



Badge:

 
IUTOX 15th International Congress of Toxicology
<p>First Name Last Name</p> <p>Organization</p> <p>City, State, Country</p>
<p>Reg Type</p>

Pocket Calendar:

Monday, July 15					Tuesday, July 16				Wednesday, July 17				Thursday, July 18																		
8:00 AM Separate Registration Required to Attend Continuing Education Courses					8:00 AM Keynote Lecture: Peter Warner Challenges in Global Health: Innovative Discovery and Translational Strategies (Kalaikau Ballroom)				8:00 AM Keynote Lecture: Christopher Austin The National Center for Advancing Translational Sciences: Catalyzing Translational Innovation in Toxicology Research (Kalaikau Ballroom)				8:00 AM Keynote Lecture: MOA vs. AOP Debate Mechanisms vs. AOP: Does It Matter for the Use of the Mechanistic Data in Decision-Making? (Kalaikau Ballroom)																		
9:00 AM					9:00 AM				9:00 AM				9:00 AM																		
CE AM01: Applications of Chemical Risk Assessment in Establishing Food Safety Standards (Room 313)		CE AM02: Immunotoxicology Hazard Identification Using Novel In Vitro Methods (Room 312)		CE AM03: Recent Developments in Adult and Developmental Neurotoxicity Testing for Regulatory Assessment (Room 315)		CE AM04: Understanding Translational Biomarkers: Science and Qualification (Room 316)		SYM01: Emerging Mechanisms of Chemical Teratogenesis (Room 312)		SYM02: International Efforts to Ensure Global Food Safety: Incorporating Advanced Toxicological Sciences in Food Risk Assessment (Room 316)		SYM03: Lysosomes: Key Regulators of Inflammation and Life or Death of a Cell (Room 313)		SYM04: Systemic and Functional Impacts of Maternal Pulmonary Nanomaterial Exposures on the Offspring (Room 315)		SYM05: The Carcinogenicity of Hexavalent Chromium: A Global Public and Environmental Health Concern (Room 315)		SYM06: Effects of Environmental Mixture Exposure on Brain Development and Function Based on Epidemiological, In Vivo, and In Vitro Studies (Room 313)		SYM07: Immunotoxicity Associated with Exposure to Nanomaterials (Room 312)		SYM08: The Carcinogenicity of Hexavalent Chromium: A Global Public and Environmental Health Concern (Room 315)									
10:00 AM					10:00 AM				10:00 AM				10:00 AM																		
11:00 AM					11:00 AM				11:00 AM				11:00 AM																		
12:00 PM					12:00 PM				12:00 PM				12:00 PM																		
Lunch and Networking on Own					Soft Skills Workshop (Room 312) Separate Registration Required		Exhibitor-Hosted Sessions (Room 317B, 318A)		Exhibitor-Hosted Sessions (Room 318B)		Perspectives of Women in Toxicology (Room 312)		Find Your Mentor (Room 317A) Separate Registration Required		IUTOX General Assembly (Room 319) 12:00 Noon-5:00 PM See Program for Details		IUPHAR IUTOX Exchange Session Precision Medicine and ADME-Targets (Room 312)														
1:00 PM					1:00 PM				1:00 PM				1:00 PM																		
2:00 PM					2:00 PM				2:00 PM				2:00 PM																		
3:00 PM					3:00 PM				3:00 PM				3:00 PM																		
CE PM05: Big Data Analytics in the Era of the 21st Century of Toxicology (Room 315)		CE PM06: Epigenetics and Toxicology: Overview and Advances in Methodology (Room 316)		CE PM07: New Risk Assessment Approaches for Reproductive and Developmental Toxicology (Room 312)		CE PM08: What is an Adverse Effect for Human Health: Defining Adversity in Risk/Safety Assessments (Room 313)		SYM05: Concerns of Herbal Product-Induced Toxicity (Room 315)		SYM06: Emerging CRISPR Applications in Environmental Health Sciences and Toxicology (Room 313)		SYM07: Epigenetic Biomarkers of Exposure to Environmental Carcinogens (Room 312)		SYM08: New Approach Methodologies: A Global Perspective (Room 316)		SYM09: Acute, Chronic, and Long-Term Pesticide Effects: Mechanisms of Actions, Epidemiological Data, Priority Areas for Research (Room 313)		SYM10: Collaborative Approaches to Proactively Advance 3Rs in Nonclinical Drug Development (Room 312)		SYM11: Empowering Toxicology and Environmental Health Research to Address Disasters and Emerging Threats (Room 315)		SYM12: Out of the Box: Contribution of the Immune System to Organ Toxicity (Room 316)		SYM13: Applying the Key Characteristics Paradigm in Hazard Identification and Risk Assessment (Room 313)		SYM14: Biomarker Qualification: Accelerating Drug Development by Enabling the Use of Novel Diagnostic and Safety Biomarkers (Room 312)		SYM15: Leveraging Zebrafish to Support Global Toxicology Challenges (Room 316)		SYM16: Recent Trends in Research on Arsenic Toxicity (Room 315)	
4:00 PM					4:00 PM				4:00 PM				4:00 PM																		
5:00 PM					5:00 PM				5:00 PM				5:00 PM																		
Opening Ceremony (Kalaikau Ballroom)					Poster Session 1 and Refreshments (Exhibit Hall)				Poster Session 2 and Refreshments (Exhibit Hall)				Closing Ceremony (Kalaikau Ballroom)																		
6:00 PM					6:00 PM				6:00 PM				6:00 PM																		
Deichmann Lecture: Linda Birnbaum Human Health and the Environment: Global is Local is Personal (Kalaikau Ballroom)					7:00 PM				7:00 PM				7:00 PM																		
7:00 PM					7:00 PM				7:00 PM				7:00 PM																		
Welcome Reception (Exhibit Hall)					8:00 PM				8:00 PM				8:00 PM																		
8:00 PM					8:00 PM				8:00 PM				8:00 PM																		
9:00 PM					9:00 PM				9:00 PM				9:00 PM																		
9:00 PM					9:00 PM				9:00 PM				9:00 PM																		
													  																		

Sponsor Levels and Benefits

IUTOX ICTXV₂₀₁₉ Sponsorship Opportunities

BENEFITS	HAWAII	MAUI	OAHU	KAUAI	MOLOKAI
	\$15,000 - \$25,000	\$10,000 - \$14,999	\$5,000 - \$9,999	\$2,500-\$4,999	\$1,000-\$2,499
Visual acknowledgement via ICT Homepage	✓				
Verbal acknowledgement at daily Keynote	✓				
Email acknowledgement in communications prior to event	✓	✓			
Gala Dinner & Reception Tickets	4	4	2		
Verbal acknowledgement at Welcome Reception	✓	✓	✓		
Ribbons Displaying Sponsorship Level	10	8	6	4	2
Visual acknowledgement at Welcome Reception	✓	✓	✓	✓	✓
Visual acknowledgement via ICT Sponsor page	✓	✓	✓	✓	✓
Visual acknowledgement via Program	✓	✓	✓	✓	✓
Visual acknowledgement at daily Keynote	✓	✓	✓	✓	✓
Visual acknowledgement in housekeeping slides	✓	✓	✓	✓	✓

Level	Organization	Sponsorship Amount
Hawaii	*National Institute of Environmental Health Services (NIEHS)/ Office of the Director	\$16,250
Maui	SOT Past Presidents	\$11,000
Oahu	The Allergan Foundation	\$5,000
Oahu	Bristol-Myers Squibb	\$5,000
Oahu	Charles River	\$5,000
Oahu	Daiichi Sankyo Co., Ltd	\$7,500
Oahu	Pfizer	\$5,000
Oahu	*US Food and Drug Administration	\$6,250
Kauai	American Society for Cellular and Computational Toxicology (ASCCT)	\$2,500
Kauai	Human Toxicology Project Consortium	\$2,500
Kauai	Japanese Society of Toxicology	\$2,600
Molokai	Academy of Toxicological Sciences	\$1,000
Molokai	Gilead	\$1,000
Molokai	ITR Canada	\$1,000
Molokai	Procter & Gamble	\$1,000
Molokai	John A. and Sandra K. Wisler	\$1,000
Lanyards	WuXi AppTec	\$2,000
	TOTAL RECEIVED:	\$75,600
*Grants received through NIH and FDA reflect totals after portion allocated to IUTOX awards.		

Sponsor List

Hawaii (\$15,000–\$25,000)



Maui (\$10,000–\$14,999)

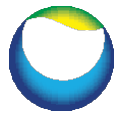
SOT Past Presidents

Oahu (\$5,000–\$9,999)



Bristol-Myers Squibb

charles river



Daiichi-Sankyo



Kauai (\$2,500–\$4,999)



Molokai (\$1,000–\$2,499)

Academy of Toxicological Sciences

Gilead Sciences, Inc.

ITR Laboratories Canada, Inc.

John A. and Sandra K. Wisler

Procter & Gamble



The SOT Endowment Fund provided travel award support for 25 scientists to attend.

Exhibitors

Exhibitor Schedule

Monday, July 15

Exhibitor Set-Up: 8:00 AM-3:00 PM

CE Courses: 9:00 AM-5:00 PM

Welcome Reception in Exhibit Hall: 7:00 PM-8:30 PM

Tuesday, July 16

Exhibitor-Hosted Sessions: 11:30 AM-2:30 PM

Exhibit Hall Open: Noon-6:30 PM

Poster Session in Exhibit Hall: 4:30 PM-6:30 PM

Wednesday, July 17

Exhibitor-Hosted Sessions: 11:30 AM-2:30 PM

Exhibit Hall Open: Noon-6:30 PM

Poster Session in Exhibit Hall: 4:30 PM-6:30 PM

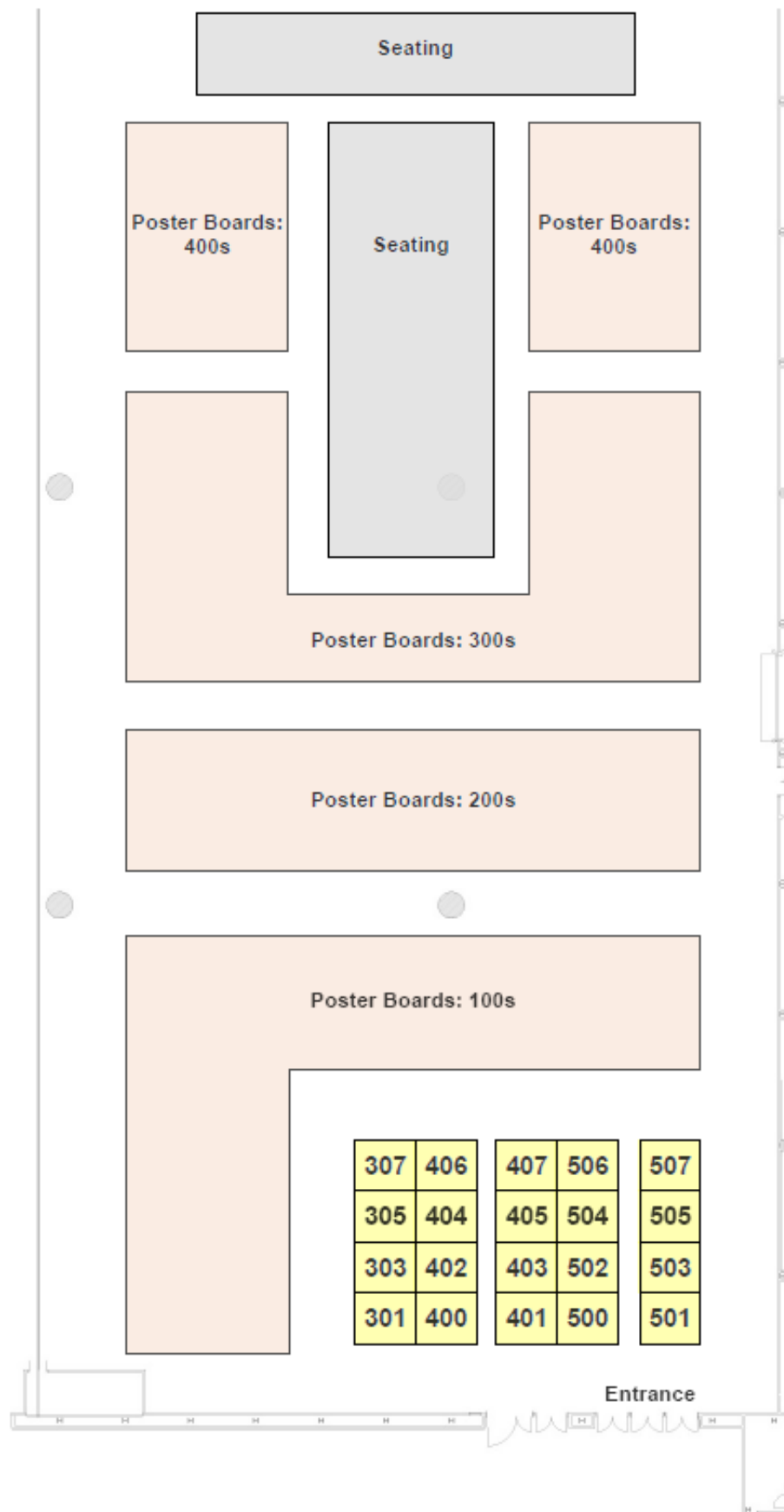
Booth Dismantling: 6:30 PM-9:00 PM

Exhibiting As	Booth Number	Country	Total Amount
Abcam plc	506	United Kingdom	\$1,400.00
American College of Toxicology (ACT)	402	United States	\$950.00
Chinese Society of Toxicology	502	China	\$950.00
Covance	303	United States	\$1,400.00
EPL Archives	404	United States	\$1,400.00
ICT 2022	503	Germany	\$0.00
International Union of Toxicology (IUTOX)	505	United States	\$0.00
ITR Laboratories Canada Inc.	400	Canada	\$1,400.00
Lhasa Limited	301	United Kingdom	\$1,400.00
Medicilon Preclinical	501	China	\$1,400.00
MultiCASE Inc.	406	United States	\$1,400.00
NC3Rs	403	United Kingdom	\$950.00
SenzaGen	407	Sweden	\$1,400.00
SNBL	401	Japan	\$1,400.00
Texas A&M University Superfund Center	504	United States	\$950.00
ToxPlanet	500	United States	\$1,400.00
ToxSci Advisors	507	United States	\$1,400.00
WuXi AppTec	307	United States	\$1,400.00

Exhibit Floor Plan



Exhibitor List	Booth #
Abcam plc	506
American College of Toxicology (ACT)	402
Chinese Society of Toxicology	502
Covance	303
EPL Archives	404
ICT 2022	503
International Union of Toxicology (IUTOX)	505
ITR Laboratories Canada Inc.	400
Lhasa Limited	301
Medicilon Preclinical	501
MultiCASE Inc.	406
NC3Rs	403
SenzaGen	407
SNBL	401
Texas A&M University Superfund Center	504
ToxPlanet	500
ToxSci Advisors	507
WuXi AppTec	307



Exhibitor Hosted Sessions

Session descriptions are included below as listed in the ICTXV Final Program.

Tuesday, July 16

11:30 AM - 12:30 PM

Global Initiatives for the Replacement, Reduction, and Refinement of Animal Use in Toxicology
Sponsored by: NC3Rs

This session will highlight work of the UK's National Centre for the Replacement, Refinement and Reduction of Animals in Research (NC3Rs). The NC3Rs brings together international consortia of scientists from industry, academia and regulatory agencies to promote best practice within existing regulations and provide evidence supporting regulatory change where appropriate.

miRNA and Protein Biomarkers of Drug-Induced Organ Toxicity using FirePlex®
Sponsored by: Abcam

This session will highlight multiomic approaches for screening biomarkers of organ toxicity using the FirePlex® Platform. We will present data from preclinical animal models assessed for both miRNA and protein urinary biomarkers of drug-induced kidney injury (DIKI), and highlight candidate miRNAs that may serve as translational biomarkers of DIKI.

1:00 PM - 2:00 PM

In Silico Toxicology: From Fragment-Based QSAR to Deep Learning Networks
Sponsored by: MultiCASE

This session will cover the methodological changes in QSAR systems, developed by MultiCASE Inc. in the last 20 years. The advantages and disadvantages of used approaches will be presented along with examples of QSAR assessments, which can be performed with modern systems and cover broad aspects of in silico toxicology.

IUTOX Awards and Fellowships



IUTOX Merit Award

Elaine M. Faustman

Institute for Risk Analysis & Risk Communication, University of Washington

The IUTOX Merit Award was received by Dr. Elaine Faustman during the Opening Ceremony on Monday, July 15, 2019.



Deichmann Plenary Lecture

Linda S. Birnbaum

National Institute of Environmental Health Sciences and National Toxicology Program

The Deichmann Lecture was delivered by Dr. Linda Birnbaum following the Opening Ceremony on Monday, July 15, 2019.



TEF Dixon Award

Lenny Kamelia, PhD Candidate,
Wageningen University & Research, The Netherlands

The Toxicology Education Foundation provided the Robert L. Dixon International Travel Award to support a graduate student in attending the 15th International Congress of Toxicology.

IUTOX Awards and Fellowships

IUTOX ICTXV Travel Award Recipients



Katarina Baralić
Serbia



Anca Oana Docea
Romania



Danijela Đukić-Čosić
Serbia



María García-Espiñeira
Colombia



Andrey Kukharenskiy
Russia



Jinhua Li
China



Kamakshi Mehta
India



Umar Muhammed Bello
Nigeria



Francis Okonkwo
Nigeria



Kelly Olympio
Brazil



Yuliana Parra-Forero
Mexico



Betzabet Quintanilla-Vega
Mexico



Sheikh Raisuddin
India



Natasha Sanabria
South Africa



Monruedee Sukprasansap
Thailand



Hulya Turkan
Turkey



Chinyere Usoro
Nigeria



M. Wahajuddin
India



Quanjun Wang
China



Yuanyuan Xu
China



Victor Yariwake
Brazil



Itzel Zavala-Guevara
Mexico

IUTOX ICTXV Travel Award Sponsors



SOT Awards and Fellowships

SOT Endowment Fund Travel Award Recipients



**Stephen
Abiola Akinola**
South Africa



**Chand
Davuljigari Basha**
India



**Alejandro
Déciga-Alcaráz**
Mexico



**Claudia
Escudero-Lourdes**
Mexico



Alicia Faletti
Argentina



Keyu He
China



Lori Hajar
Mexico



Eui-Bae Jeung
Korea



Neelakshi Kar
India



Man Long Kwok
China



Kwun Kwan Lo
China



Qun Lou
China



**Alonso Andres
Doria Manzur**
Colombia



**Wanchanok
Nantacharoen**
Thailand



Mahesh Nepal
Nepal



**María de los
Angeles Andrade
Oliva**
Mexico



**Orish
Ebere Orisakwe**
Nigeria



**Manolo
Ortega-Romero**
Mexico



**Silvia Carolina
Moreno Rivas**
Mexico



Nalinee Sripaung
Thailand



**Lesly
Tejeda-Benitez**
Colombia



Qi Wang
China



Tingting Wei
China



Hongyu Yang
China



Tingjie Zhan
China

Promotional Materials and Logos



Dates and Activities

Promotions included but were not limited to:

- SOT, IUTOX, and ICTXY websites
- SOT quarterly *Communiqué*
- IUTOX Newsletter
- IUTOX and SOT emails to society members
- *Toxicological Sciences* advertisements
- Signage and Hawaii CVB presence at 2018 and 2019 SOT Annual Meetings
- Hawaii CVB presence at ASIATOX 2018
- Advertisement in the EUROTOX 2018 program



<http://toxicology.org/events/ict/images/logos/ICT-logo-color1.png>



<http://toxicology.org/events/ict/images/logos/ICT-logo-white-blue.png>

You're Invited!



Plan to attend the
IUTOX 15th International Congress of Toxicology

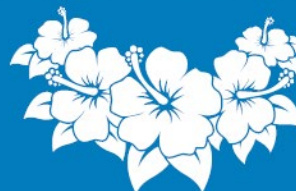
July 15–18, 2019

Hawaii Convention Center, Honolulu, Hawaii

It's been 24 years since SOT has co-hosted! Join SOT and IUTOX for this global forum to address "Toxicology Solutions for Global Public, Environmental, and Personal Health" in countries with both robust and developing research and regulatory enterprises.

Engage in a broad and diverse scientific program in a location not to be missed. Register for ICTXY here in Baltimore!

www.toxicology.org/ICT2019



Communications

Quarterly *Communiqué*

2019: Issue 2—Distributed on May 23, 2019

- [With International Collaborations on the Rise, SOT Offers a Face-to-Face Research Exchange Opportunity](#)

Also promoted in the President's Message of [2019: Issue 1](#) (February 14, 2019) and [2018: Issue 3](#) (August 23, 2018).

SOT Weekly Newsletter

ICTXV Special Section

- May 30, 2019

Featured in the "SOT News and Announcements" Section

- August 8, 2018: ["Join SOT and IUTOX for Global Forum on Toxicology"](#)
- August 30, 2018: ["Hawaii is Calling!—Abstract Submission Now Open for IUTOX ICTXV"](#)
- November 15, 2018: ["Bring Your Scientific Findings to Hawaii"](#)
- February 7, 2019: ["Submit a Late-Breaking Abstract for IUTOX ICTXV"](#)
- March 21, 2019: ["DEADLINE EXTENDED: ICTXV Late-Breaking Abstracts Due March 25"](#)
- April 4, 2019: ["Register Now and Save on Upcoming International Congress of Toxicology"](#)
- April 18, 2019: ["Book Housing Now for the IUTOX 15th International Congress of Toxicology"](#)
- May 16, 2019: ["Expand Your Global Network during ICTXV"](#)
- June 6, 2019: ["Book Your ICTXV Housing"](#)

Featured in the "News from the SOT Blog" Section

- October 25, 2018: ["Bring Your Scientific Findings to an Island Paradise—IUTOX Abstract Deadline Is November 30"](#)
- November 8, 2018: ["ICTXV Travel Funding Opportunities"](#)

Featured in the "Do You Know?" Section

Exhibiting, marketing, and support opportunities are available for the IUTOX 15th International Congress of Toxicology (ICTXV), co-hosted by SOT. [Reach a Global Audience during ICTXV](#)

- May 9, 2019
- June 13, 2019

Listed in the "Upcoming SOT Events and Activities" Section

- July 26, 2018
- August 2, 2018
- August 9, 2018
- August 16, 2018

Communications

Listed in the “Upcoming SOT Events and Activities” Section (cont.)

- September 6, 2018
- September 13, 2018
- September 20, 2018
- September 27, 2018
- October 4, 2018
- October 11, 2018
- October 18, 2018
- October 25, 2018
- November 1, 2018
- November 8, 2018
- November 15, 2018
- December 6, 2018
- December 13, 2018
- December 20, 2018
- January 10, 2019
- January 17, 2019
- January 25, 2019
- January 31, 2019
- February 7, 2019
- February 21, 2019
- February 28, 2019
- March 7, 2019
- March 21, 2019
- March 28, 2019
- April 4, 2019
- April 11, 2019—With special banner promoting the early-bird registration deadline
- April 18, 2019
- April 25, 2019
- May 2, 2019
- May 9, 2019
- May 16, 2019
- May 30, 2019—With special banner promoting the standard registration deadline
- June 6, 2019
- June 13, 2019—With special banner promoting the housing deadline
- June 20, 2019
- July 2, 2019
- July 11, 2019—With special banner promoting the event is happening next week

Ads in *Toxicological Sciences*

- September 2018: ½ page promoting abstract submissions
- December 2018: Full page promoting registration and housing
- March 2019: ½ page promoting registration and late-breaking abstract submissions
- June 2019: ½ page promoting registration

Communications

Direct Emails to all SOT Members

- June 1, 2017: SOT—IUTOX International Congress of Toxicology (ICT) to be Held July 15–18, 2019
- June 21, 2017: SOT—Submit Continuing Education Proposals for IUTOX ICTXV, Honolulu, Hawaii, July 2019
- July 13, 2017: SOT—IUTOX ICTXV Symposia and CE Course Submission Site Now Available
- September 28, 2017: ICTXV Proposal Submission Deadline December 31
- November 7, 2017: ICTXV Proposal Submission Deadline Reminder—December 31, 2017 – members
- December 4, 2017: Four Weeks to Go!—ICTXV Proposal Submission Deadline December 31
- December 18, 2017: Two Weeks Left to Submit!—ICTXV Proposal Submission Deadline December 31
- November 26, 2018: The Road from ICTVII, Seattle 1995 to ICTXV
- March 20, 2019: Submit Your Late-Breaking Abstract for the IUTOX 15th International Congress of Toxicology
- April 9, 2019: Register now for the IUTOX 15th International Congress of Toxicology
- July 10, 2019: ICTXV—Essential Information and Final Program

Presence at other society meetings

- SOT Annual Meeting: 2018 (signage, brochures, Hawaii CVB, and dancers) and 2019 (signage, housekeeping slides, Hawaii CVB, lounge area, brochures)
- ACT Annual Meeting November 2018 (flyers)
- Teratology Society Annual Meeting June 2019 (flyers)
- EUROTOX 2017 and 2018 (slides, Organizing Committee members present)
 - Advertisement in the EUROTOX 2018 program
- Hawaii CVB presence at ASIATOX 2018

IUTOX Emails to Member Societies (at the request of SOT)

- November 16, 2017: ICTXV Proposal Submission Deadline December 31, 2017
- October 3, 2018: SOT Issues Call for ICTXV Abstracts—November 30 Deadline
- October 12, 2018: Aloha! SOT Announces ICTXV Registration and Housing Now Open
- November 6, 2018: IUTOX Shares ICTXV Abstract Deadline Reminder—November 30
- November 27, 2018: ICTXV Abstract Deadline Reminder: November 30—Funding Available
- February 8, 2019: IUTOX ICTXV—Late-Breaking Abstract Submission Now Open
- March 22, 2019: IUTOX Shares ICTXV News from SOT—Submit Your Late-Breaking Abstract by March 25
- April 11, 2019: IUTOX Shares ICTXV News from SOT—Register by April 15 for Discounted Rates
- April 23, 2019: IUTOX Shares ICTXV News from SOT—Book Housing Now for Discounted Rates
- May 29, 2019: ICTXV Advance Registration Deadline May 31

Financial Detail

ICTXV MEETING	All Revenue	Budgeted Revenue	All Expenses	Budgeted Expenses
Abstract			6,005	
Audio/Visual			64,170	120,000
Awards-:Other			3,800	
Bank Fees			4,088	4,000
Continuing Education	30,895	84,750	35,509	73,550
Contributions*	83,100	150,500		
Convention Center			51,826	70,000
Entertainment			2,200	15,000
Event Planning/Org Com Travel				26,982
Exhibits	19,050	79,500	29,492	66,250
Food & Beverage			90,030	192,938
Guest Program	4,000	6,250		6,250
Hotel	32,153	115,000		
Insurance			3,972	3,500
Internet Access			10,028	35,000
IUTOX EC			9,457	15,000
IUTOX ICT Travel Awards*	29,500		29,500	
IUTOX General Assembly			1,852	12,000
Marketing				15,000
Miscellaneous			8,479	8,626
Postage			683	5,000
Printing			23,243	71,811
Registration	463,072	1,000,000	1,581	15,900
Security Defense			2,730	15,000
Speakers			126,511	173,760
Steno/Clerical			233,543	97,447
Travel			7,914	22,494
Web (Dev) Maint			26,497	41,104
TOTALS	661,770	1,436,000	773,109	1,106,612
Net Income/Expenses	(111,339)			

* Total contributions reflect full grants received from NIH and FDA. Allocations toward IUTOX travel awards (\$7,500) are taken from total owed for awards.

Notes for Future Hosts

- SOT co-hosted the ICTXV as an independent meeting that was not in conjunction with the SOT Annual Meeting. As co-host, collaborations between SOT and IUTOX existed that differ from previous ICT meetings. SOT submitted two federal grants that partially supported the IUTOX Fellowships. IUTOX submitted these grants independently to fund these fellowships in previous years. To aid in the facilitation for IUTOX to maintain similar funding and to follow US federal grant guidelines regarding number of requests accepted per meeting, SOT submitted one application that included the IUTOX Fellowships.
- SOT produced digital promotional materials rather than printing items such as course books and a program. An event app was available as a resource to identify sessions and presenters. Thumb drives were on hand, but there were no requests for files or printed materials from attendees on-site.
- SOT recorded all CE sessions to be shared online at a later date to both SOT members and IUTOX Member Societies.
- SOT found that 57% of the registrants occurred at the lowest (Early Bird) registration rate with 7% paying on-site in Honolulu. Several on-site registrants paid in US currency, while most used a credit card.
- Travel restrictions prevented some registrants from obtaining VISAs and attending.
- SOT appreciates the support of other societies to help fund attendee participation. Many employers of presenters supported their participation which is greatly appreciated. SOT found establishing clear guidelines for speaker reimbursement to be beneficial in the budgeting process.
- Two sessions were organized outside of SOT as a part of IUTOX commitments. It was important to consider the needs of these programs early in the Scientific Program planning process. During the ICTXV these were the IUPHAR Exchange session and the Women in Toxicology (WIT) sessions.
- Lunch vouchers (2 per person) were provided only to those attendees from developing countries without issue.
- CE course attendance was approximately 14% of attendees.
- The Opening and Closing ceremony agendas and scripts were a collaboration with both SOT and IUTOX leadership presentations.
- Samples of correspondence and invitations letters or other planning materials are available upon request.