



The XIV International Congress of Toxicology
Merida, Mexico, 2016



HOSTED
BY:



FINAL REPORT

www.itc-mexico2016.org



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I.1. CONGRESS COMMITTEES:

Honorary President

Liliana Saldivar y Osorio

Organizing Committee

Betzabet Quintanilla-Vega (Congress President)

Andrea De Vizcaya-Ruiz (VicePresident)

Isabel Hernández-Ochoa (General Secretary)

Luz María Del Razo (Scientific Committee co-chair)

María Concepción Gutiérrez-Ruiz (SoMTox President)

Omar Zapata-Pérez (Local Committee chair)

María Eugenia Gonsebatt

Gonzalo García-Vargas

Norma Pérez-Herrera

Elizabeth Rojas-García

Olivier Barbier

Martha Medina-Diaz

Adolfo Sierra-Santoyo

Lourdes Aldana-Madrid

Marcela del Río

Javier Perera-Ríos

Mercedes Quintanilla

Isajav Rivas-Reyes

Mariano E Cebrián

Mari Stavanja

Laura Börgel Aguilera

Herman Autrup (IUTOX-President)

Jun Kanno (IUTOX President-Elect)

Elaine Faustman (IUTOX-Secretary General)

Heidi Foth (IUTOX-Treasurer)

Eugenio Vilanova (Barcelona-Congress President)

Daniel Acosta (IUTOX Past-President)

Byung-Mu Lee (Seoul-Congress President)

Scientific Committee

Luz María Del Razo and Jun Kanno (Co-chair persons)

Arnulfo Albores (Mex)

Laura Arreola-Mendoza (Mex)

Edmundo Bonilla-González (Mex)

Eduardo Brambila (Mex)

Fleming R. Cassee (Netherlands)

Magda Carvajal-Moreno (Mex)

Chen-Chang Yang (Taiwan)



George M. Cherian (USA)
Nancy Claude (Fra)
Fernanda Cavieres (Chile)
Fernando Díaz-Barriga (Mex)
Wolfgang Dekant (Germany)
Vicenta Devesa (Spain)
Patricia Escalante-Galindo (Mex)
Rodrigo Franco (USA)
Claudia García-Cuellar (Mex)
Dori R. Germolec (USA)
Myung-Haing Cho (Korea)
Braulio Jiménez Velez (Puerto Rico)
Michael T. Kleiman (USA)
Daniel Junqueira Dorta
Jose E. Manautou (USA)
Mauricio Manno (Italy)
Francesco Marchetti (Canada)
Akira Naganuma (Japan)
Ofelia A. Olivero (USA)
Jesús Olivero-Verbel (Col)
Arturo Ortega-Soto (Mex)
Álvaro Osornio-Vargas (Canada)
Kenneth S. Ramos (USA)
Horacio Riojas-Rodríguez (Mex)
Stephen Safe (USA)
Miroslav Styblo (USA)
Libia Vega Loyo (Mex)
Michael P. Waalkes (USA)

International Advisory Committee

Bob Hoffman (USA)
Heather M Wallace (UK)
Ursula Gundert-Remy (Germany)
Sunao Manabe (Japan)
Peter L. Goering (USA)
Silvia B.M. Barros (Brazil)
Maureen Birmingham (PAHO)
Myung-Haing Cho (AsiaTox)
Heidi Foth (Germany)
Aristidis Tsatsakis (Eurotox)
Peter Di Marco (Australia)
Mary Gulumian (South Africa)



XIV International Congress of Toxicology Merida-Mexico October 2-6, 2016



Societies Committees

IUTOX Executive Committee



Herman Autrup
Jun Kanno
Mary Gulumian
Elaine Faustman
Heidi Foth
Nurşen Başaran
Nancy Claude
Emanuela Corsini
Daniel Dorta
Kendall B. Wallace

Mexican Society of Toxicology



María Concepción Gutiérrez-Ruiz
Betzalet Quintanilla-Vega
Libia Vega Loyo
Gonzalo García-Vargas
Andrea De Vizcaya-Ruiz
María Eugenia Gonsebatt
Elizabeth Rojas-García



I.2. Venue

Merida was selected as the host city because is a beautiful colonial city known as the “White City”; nowadays it is one of the most tranquil and safest cities in Mexico. Her remote Mayan roots, superb colonial monuments and the splendor of her architecture have made Merida a captivating mixture of cultural influences. Merida has an important academic life, it has: the Autonomous University of Yucatan (UADY), campuses from the National Autonomous University of Mexico (UNAM) and the Center for Research and Advances Studies (CINVESTAV), as well as some private universities. In the last years, Merida has been the choice venue for several national and international congresses. Visitors and attendees to the congress will get, in addition, an excellent opportunity to get in contact with the Mayan culture, still alive in Yucatan State. Besides, after the congress, they can travel to Merida surroundings, including Cancun for few more days of relaxation (3-4 hours by bus).





The venue was the Convention Center (CC) of Merida, Yucatan, Mexico. The building was built in the 80s in response to a growing demand for spaces that will house more travelers for business, conventions, trade fairs and cultural. It was the first to be built specifically for conventions at a time when Merida was booming because of its many cultural, gastronomic and human resources attractions, where existing hotels did not fully cover space needs. For a capacity of around 1000 attendees the shadow rooms were occupied to the ICT2016 Congress (Figure 1). The CC is located aside to the extraordinary Mayan Museum (“Gran Museo del Mundo Maya”), to which the congress attendees had free access as a courtesy of the State Government.

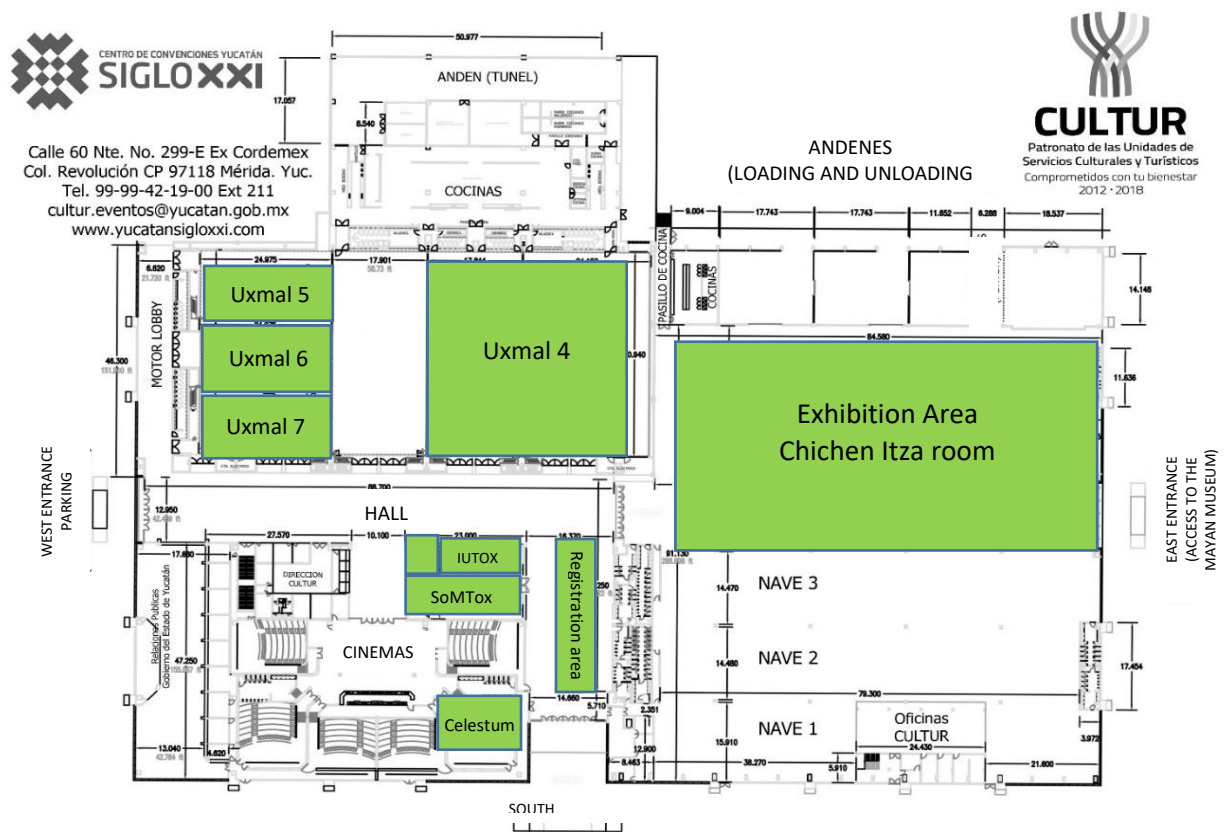


Figure 1. Merida Convention Center. The congress was housed in the green areas.



I.3. Program at glance

Time	Oct 2 (Sunday)						October 3 (Monday)					October 4 (Tuesday)					October 5 (Wednesday)					October 6 (Thursday)				
	Hall		Hall	Uxmal 4	Uxmal 5	Uxmal 6	Uxmal 7	Celestun	Hall	Uxmal 4	Uxmal 5	Uxmal 6	Uxmal 7	Celestun	Hall	Uxmal 4	Uxmal 5	Uxmal 6	Uxmal 7	Celestun	Hall	Uxmal 4	Uxmal 5	Uxmal 6	Uxmal 7	Celestun
8:30	Registration / Exhibition CE Courses	Registration / Exhibition	Registration / Exhibition	OP8	OP5	OP6	OP7	OP1	Registration / Exhibition	OP9	OP12	OP15	OP16	OP17	Registration / Exhibition	OP22	OP23	OP25	OP26	OP19	Registration / Exhibition	PL4: Dr. Jiang Guibin Uxmal 4				
9:00				PL1: Dr. Maria Neira Uxmal 4						PL2: Dr. Linda S. Birnbaum Uxmal 4						PL3: Dr. Philip Landrigan Uxmal 4										
9:30				W1	S1	S2	S3	S4		W2	S14	S15	S16	S17		W3	S22	S23	S24	S25		W4	S31	S32	S33	S34
10:00				Lunch Seminar						Infant Health						Mentoring Meeting						Closing Ceremony Uxmal 4				
10:30				Poster Sessions PP1 to PP9						Global Collaborat						ALATOX Meeting						IUTOX General Assembly (12:00 - 17:00)*				
11:00				Poster Sessions PP10 to PP14						DL1: Dr. Stefano Bonassi Uxmal 4						DL2: Dr. Ellen Silbergeld Uxmal 4						*Fiesta Inn Hotel - Room ABC				
11:30				Registration / Exhibition						RT2						S30										
12:00				Registration / Exhibition						S9						S18										
12:30				Registration / Exhibition						S10						S19										
13:00				Registration / Exhibition						S11						S20										
13:30				Registration / Exhibition						S12						S21										
14:00				Registration / Exhibition						S13						SoM Tox Meeti										
14:30				Registration / Exhibition																						
15:00				Registration / Exhibition																						
15:30				Registration / Exhibition																						
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18:30	Registration / Exhibition																									
19:00	Registration / Exhibition																									
19:30	Registration / Exhibition																									
20:00	Registration / Exhibition																									
20:30	Registration / Exhibition																									

II. CONGRES DEVELOPMENT

The company “Turismo y Convenciones S.A de C.V.” (T&C) was selected to serve as the conference operating organizer. The team of T&C was familiar with the congress since it was initially bid in the previous meetings of Montreal and Barcelona to host the ICT XIV. T&C is a benchmark of innovation for more than 28 years in providing an integrated and efficient service in the organization of events, through creativity, social responsibility and personalization in the service. T&C was responsible of all technical and administrative aspects of the Congress before and during the congress with the CC and had close contact with local tourism offices in the state of Yucatan.

II.1 Congress progress meetings with IUTOX EC members

During the planning of the ICT2016, the organizing committee had several meetings with IUTOX EC members to discuss the progress and/or activities that deserved attention, these meetings were at: SOT meetings in 2013, 2014, 2015 and 2016, ICT2013 in Seoul, EUROTOX Edinburg 2014 and ICDC, Brazil 2015. During the SOT 2014 congress in Phoenix Arizona, a meeting with IUTOX members, including past ICT congresses representatives and ICT2019 organizing committee was held to discuss



the best strategies to develop a successful international meeting. In SOT 2015, a joint meeting with SOT organizing members of ICT2019 in Hawaii took place to share ideas and expertise.

II.2 Congress Logo, promotional activities and material, and signage

The logo of the ICT2016 was chosen to represent Mayan symbols: the head means the number XIV, and according to the Mayan numbering, each of the two green lines below the name of the congress equals 5 and each one of the four dots between the lines equals 1, then the sum is 14, number of the congress. Considering the importance of the sustainability, the theme of the congress was: *Toxicology and global sustainability*, because everything that we need for our survival and well-being depends on our natural environment. We have to create and maintain the conditions under which humans and nature can exist in productive harmony to support present and future generations.



XIV International
Congress of
Toxicology

....
In conjunction with the
X Mexican Congress of
Toxicology

Merida, Mexico. October 2-6, 2016

We prepared congress material for each one of the promotional activities that we had, either in English or in Spanish for the Latin American people. Following are some examples of these materials:



Flyers



We look forward to welcome you
in Mexico for the



XIV International Congress of Toxicology

Merida, Mexico. October 2-6, 2016

Chichen Itza was a large pre-Columbian city built by the Maya civilization, was one of the largest Maya cities and it was likely to have been one of the mythical great cities. In 2007, it was recognized as one of the New Seven Wonders of the Modern World.

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SOCIEDAD MEXICANA DE TOXICOLOGÍA



INTERNATIONAL UNION OF TOXICOLOGY



Turismo y Convenciones

registro profesional de eventos





Book marks



Promotional material for ALATOX members (Spanish)

La Sociedad Mexicana de Toxicología (SoMTox) y la IUTOX se complacen en invitarlos al

14th International Congress of Toxicology (ICT)

Octubre 2-6, 2016
Centro de Convenciones, Mérida, Yucatán

ICTXIV, por primera vez en México y Latinoamérica!

Fecha límite para envío de resúmenes: 10 de junio

Comité Organizador

Presidenta	Dr. Liliana Saldívar y Osorio
Honoraria	Dra. Betzabet Quintanilla-Vega (Presidenta del Congreso) Dra. Isabel Hernández-Ochoa (Secretaría) Dra. Ma. Concepción Gutiérrez-Ruiz (Presidenta, SoMTox)
Comité Organizador	Dr. Gonzalo García-Vargas, Dra. Andrea De Viscaya-Ruiz, Dra. María Eugenia Gorsebatt, Dr. Omar Zapata, Dra. Norma Pérez-Herrera, Dra. Elizabeth Rojas-García, Dra. Martha Medina-Suaz, Dr. Mariano Cebalán, Dr. Adolfo Sierra-Santoyo, Dr. Olivier Barbier, Dra. Lourdes Albana
Comité Científico	Dr. Luz María Del Razo (Co-chair)

• Los resúmenes se publicarán "en línea" en la revista *Toxicology Letters*

Instituciones y Sociedades Participantes:

www.ictmexico2016.org www.somtox.com.mx/

Conferencistas Magistrales

María Heredia
UNAM, México

Dolores Rosales
ICSL, Toluca

Eleni Shergent
New York University

Jan Guillén
Autonoma Universitat de Barcelona

Linda Brumback
WVU, USA

Philip Partridge
Wentworth Institute of Technology, USA

Dr. Luz María Del Razo
UNAM, México

Dr. Adolfo Sierra-Santoyo
UNAM, México



Some of the signage used during the congress are as follows:



III. SCIENTIFIC PROGRAM

III.1. Call for Proposals

The call for proposals was release in March 11th, 2015 and the deadline was May 15th, 2015. The eligibility criteria for proposals were:

- Geographical distribution of speakers is recommended (not more that 2 from the same country). (Not for courses).
- The Congress Organization wants to encourage interaction between Academia-Industry-Regulators and interdisciplinary approaches (basis research, clinical/epidemiological, regulation). If possible, please include not only speakers from academic institutions but also from but also from industry and “regulatory” or international agencies.
- The proposal may be either a full proposal (including all speakers) or open to add other talks/speakers.

We received 50 proposals (42 for symposia, 2 for round tables and 6 for workshops) and after reviewing them together with Dr. Kanno (Scientific Committee co-chair) and being back and ford with the chairpersons to meet the criteria, were accepted 40 proposals. One symposium was



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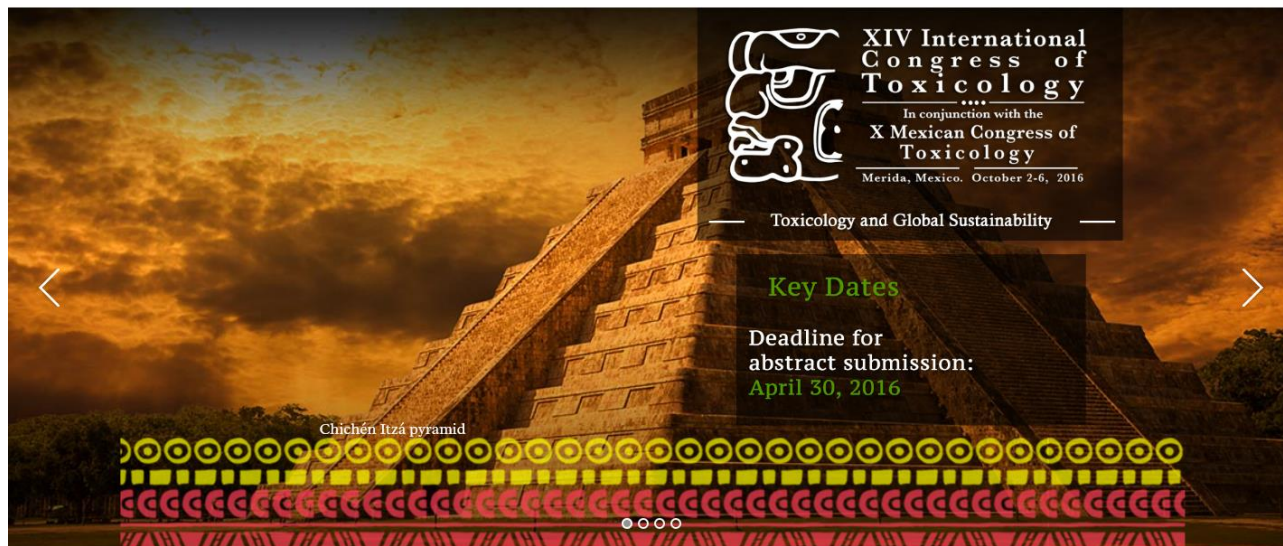


suggested to change the presentation as a round table and authors agreed (See the Program summary). In addition, we offered three CE courses on Sunday from 8:30 AM to 4:00 PM.

III. 2. Call for Abstracts

IUTOX-MEXICO2016

COMMITTEE REGISTRATION PRELIMINARY PROGRAM EXHIBITS VENUE LODGING ABSTRACTS TRANSPORTATION CONTACT US



The call for abstracts was released on our web page on December 1st, 2015 with April 30th as the deadline for submission; then it was extended to May 16th and finally to June 10. The invited speakers were asked to send their abstracts, which were not per-reviewed. We received 185 abstracts of invited speakers: 6 from plenary and distinguished, 9 from round tables, 17 from workshops, and 153 from symposia. We received 420 abstracts, which were sent to the Scientific Committee members for revision according to their expertise fields. An evaluation form was completed and reviewers gave their recommendation for the oral presentations and to select the best posters. From their recommendations and after a careful edition process and communication with authors, 56 posters were selected for platform sections, taking again into account a geographical distribution of the participants of each session (See section III.1.1), and 416 abstracts were accepted for the poster sessions, organized in 26 themes according to Table 1.

The call for late breaking abstract was opened on July 11th until August 31st, and 35 abstracts were received and included as a supplement in the USB memory stick that was given to each attendee (Figure 2).



Table 1. Posters themes and number of abstracts assigned.

Theme	# of posters	Theme	# of posters
Air Pollution	20	Medicine and Cosmetic Toxicology	6
Alternative Methods /In vitro Testing Methods	13	Metabolism, Biotransformation Polymorphisms	4
Analytical Toxicology	11	Metals	30
Carcinogenicity	7	Molecular Toxicology	21
Ecotoxicology	29	Mutagenicity-Genotoxicity	12
Educational, Social Aspects in Toxicology	8	Nanotoxicology	16
Endocrine Disruption	9	Natural Products	15
Environmental Epigenetics	9	Neurotoxicology	25
Environmental Health	27	Occupational Toxicology	15
Epidemiological Toxicology	13	Pesticides	31
Food Toxicology	15	Regulatory and Risk Assessment	9
Human and Clinical Toxicology	25	Reproductive Toxicology	18
Immunotoxicology	7	Target Organ Toxicity	21



 IUTOX-MEXICO2016

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ICT 2016 Late-Breaking Abstracts



Figure 2. Late breaking abstracts publication.



III.3. Final Scientific Program

The final program consisted in: 6 plenary lectures, 34 symposia, 4 workshops, 2 round tables (with a total of 185 invited speakers), 15 oral presentations as platform sessions (56 speakers), and 3 CE courses (120 attendees). A total of 636 abstracts were accepted, including the 35 late breaking abstracts. The Program book was supported by the Mexican Network of Pesticides (Figure 3).

Final Program by day

Sunday (October 03)

CE courses

8:30 AM – 4:00 AM

CE1	Infant Health in Contaminated Sites
CE2	Water Security: Integrating Lessons Learned for Water Quality, Quantity and Sustainability
CE3	Management of patients presenting acute poisonings

Monday (October 04)

Platform sessions

8:30 AM

PO1	Air pollution
PO5	Ecotoxicology
PO6	Educational & Social Aspects in Toxicology
PO7	Endocrine Disruption
PO8	Environmental Epigenetics

Plenary lecture

9:30 – 10:30 AM

PL-1	Preventing diseases through healthy environments: A global assessment of the environmental burden of diseases
------	---

Workshop

10:30 AM – 12:30 PM

W1	Developmental Toxicology. Different Models, Different endpoints
----	---

Symposia

10:30 AM – 12:30 PM

S1	Emerging Issues of Immunotoxicity of Pharmaceuticals
S2	Effects of Pesticides on Human Health and Ways of Prevention and Control
S3	Environmental Pollutants, Toxicity and Influence on Human Health
S4	In Vitro Microphysiological Systems to Predict Toxicity

Poster sessions

12:30 – 2:30 PM



PP1	Air Pollution
PP2	Alternative Methods/In vitro Testing Methods
PP3	Analytical Toxicology
PP4	Carcinogenicity
PP5	Ecotoxicology
PP6	Educational & Social Aspects in Toxicology
PP7	Endocrine Disruption
PP8	Environmental Epigenetics
PP9	Environmental Healsierrath
Lunch seminar	
12:30 – 13:00 PM	
LS1	Policy Physicians Committee for Responsible Medicine
Round Table	
2:30 – 4:30 PM	
RT1	ToxicOmics Towards New Era: New Horizons of Omics Sciences
Symposia	
2:30 – 4:30 PM	
S5	Advances in Mechanisms of Nephrotoxicity
S6	Innovations in the Human Health Risk Assessment of Chemicals
S7	Natural Products: Can they be used in Disease Prevention?
S8	Systematic Reviews in Toxicology
4:30 – 6:30 PM	
S9	Human Toxicomethylomics: From Global DNA Methylation to Gene-specific 5 –Hydroxymethyl-Cytosine
S10	The Aryl Hydrocarbon Receptor after Some 25 Years
S11	Nanomaterial Toxicology, its Progress and Reflection to Various Applications, with Special Reference to Carbon-based
S12	Advancing the 3Rs Through Global Harmonization: Case Studies and Future Perspectives
S13	Mining and Health
Tuesday (October 04)	
Platform sessions	
8:30 – 9:30 AM	
PO9	Environmental Health #
PO12	Human and Clinical Toxicology
PO15	Metabolism/Biotransformation/ Polymorphism
PO16	Metals
PO17	Molecular Toxicology
Plenary lecture	
9:30 – 10:30 AM	
PL-2	Long Term Impacts of Early Life Exposures



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Workshop

10:30 AM – 12:30 PM

W2 Global Perspectives on Safety, Regulatory and Risk Assessment
of Food Additives or Contaminants

Symposia

10:30 – 12:30 PM

S14 Environmental Facts on Respiratory Immune Diseases
S15 Human Toxicity of Pesticides. An inexorable burden to
mankind?
S16 Translating Mechanistic Toxicology Discoveries to Public Health
Protection
S17 Environmental Endocrine Disrupting Chemicals

Poster sessions

12:30 – 2:30 PM

PP10 Epidemiological Toxicology
PP11 Food Toxicology
PP12 Human and Clinical Toxicology
PP13 Immunotoxicity
PP14 Medicine and Cosmetic Toxicology
PP16 Metals
PP17 Molecular Toxicology
PP18 Mutagenicity - Genotoxicity

Distinguished lecture

2:30 – 3:30 PM

DS-1 In Vivo Chemical Genotoxin Exposure and DNA Damage in
Humans: An overview based on the lymphocyte Cytokinesis
Block Micronucleus Assay

Round Table

3:30 – 5:30 PM

RT2 Maternal Exposure to Nanoparticles – How does it affect the
Fetus? Status, Mechanisms, and Future Directions

Symposia

3:30 – 5:30 PM

S18 Chromosomal Instability
S19 Paternal Exposures, Sperm Health and Reproductive Success
S20 Toxicology data information networks in the 21st century
Timely Protection of Public Health from Environmental
S21 Exposure to Neurotoxicants in Latin America: Current
Challenges, and Strategies to Overcome them

Wednesday (October 05)

Platform sessions

8:30 – 9:30 AM



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PO19	Nanotoxicology
PO22	Occupational Toxicology
PO23	Pesticides
PO25	Reproduction and Development
PO26	Target Organ Toxicity

Plenary lecture
9:30 – 10:30 AM

PL-3	Children's Health and the Environment: A Global Perspective
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Workshop
10:30 AM – 12:30 PM

W3	Food Safety and Environmental Toxicology
----	--

Symposia
10:30 AM – 12:30 PM

S22	Adverse Effects of Pesticide Exposure on Fetus and Newborn Infant
S23	Listening to the Microbiome: What it says about Environmental Chemicals, Drugs, Disease and Toxicology
S24	Organ-on-chip Technology: Challenges and Interpretation of the data
S25	Toxicity of the New psychoactive Substances – an Epidemiological, Mechanistic and Clinical Overview

Poster sessions
12:30 – 2:30 PM

P19	Nanotoxicology
PP20	Natural Products
PP21	Neurotoxicology
PP22	Occupational Toxicology
PP23	Pesticides
PP24	Regulatory Toxicology and Risk Assessment
PP25	Reproduction and Development
PP26	Target Organ Toxicity

Luncheon seminar
12:30 – 2:00 PM

LS2	Mentoring Forum
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Distinguished lecture
2:30 – 3:30 PM

DS-2	Gatekeeper and watchman for Toxicology – The Role of the Microbiome in Toxicology
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Symposia
3:30 – 5:30 PM



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S26	Scientific Tool for Environmental Studies in Vulnerable Populations: ECOHEALTH
S27	Understanding Multipollutant Air Mixtures Health Effects
S28	Environmental Exposures and Neurotoxicity: Molecular Mechanisms, Epidemiology and Risk Assessment
S29	Occupational Toxicology and Chemical Risk Assessment
S30	Innovations in Environmental Epigenetics: Tales from Endocrine Disruptor to Cancer

Thursday (October 06)

Plenary lecture

9:00 – 10:00 AM

PL-4	Development of an integrated and comprehensive toxicity testing system: future direction of toxicology research in China
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Workshop

10:00 AM – 12:00 PM

W4	Genomic Biomarkers in Risk Assessment
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Symposia

10:00 AM – 12:00 PM

S31	Adulterants and Contaminants in Herbal Products, and Ethnic Remedies: New Warnings and Strategies for Surveillance
S32	Environmental Causes of Breast Cancer
S33	IUPHAR: Influence of Ethnicity, Genetics and Age on Drug Response and Toxicity
S34	Application of the Adverse Outcome Pathway (AOP) Concept to Evaluate a Link between Pesticides and Parkinson's Disease

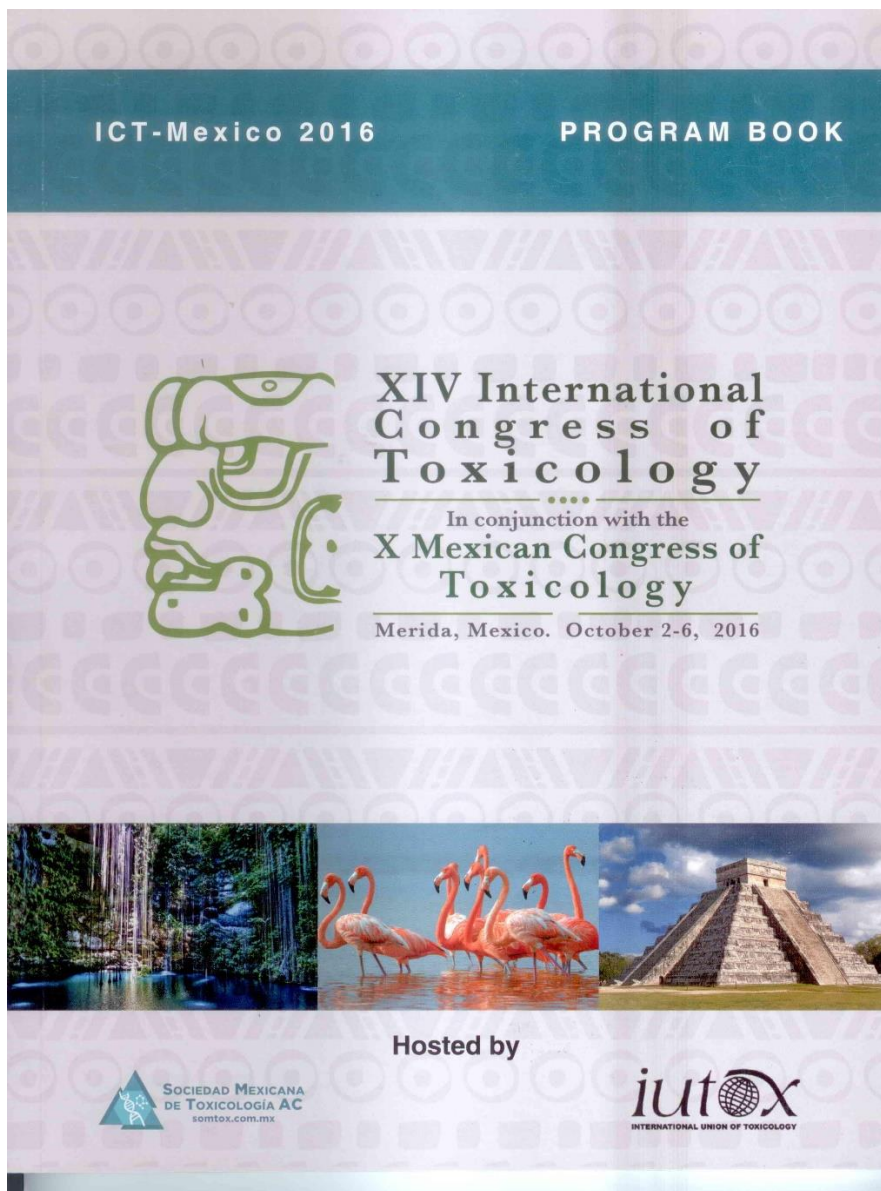


Figure 3. Program Book.

III.4. Speakers

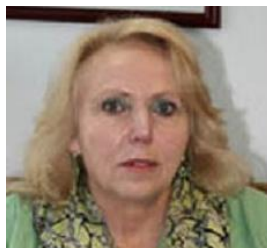
III.4.1. Keynote lectures

Deichman Lecture

The Deichman Award winner was selected by the Organizing Committee among a list of distinguished Mexican scientists, considering their careers, their influence in the academy and their



participation in the service of public health. The winner was Dr. Patricia Ostrosky-Wegman from the National Autonomous University of Mexico.



Dr. Patricia Ostrosky-Wegman earned her Bachelor degree in Biology from the Faculty of Sciences of the National Autonomous University of Mexico, UNAM. She has the Master degree in Human Genetics from the Faculty of Medicine at the University of Tel Aviv and the PhD in Pharmacology at the Faculty of Medicine UNAM, graduating with honors.

In 1994 Dr. Ostrosky founded the Department of Genomic Medicine and Environmental Toxicology at the Biomedical Research Institute-UNAM, and since 2011 she is the head of this institute, one of the top institutes of Biological Sciences in the UNAM. She was commissioned to the Ministry of Health to serve as Director of Health Policy Research in 2009. Dr. Ostrosky has been very active in the academic field as the President of the Mexican Association of Human Genetics, President of the

Latin American Association of Mutagenesis, Carcinogenesis and Environmental Teratogenicity, Secretary of the Latin American Society of Genetics, and Board Member of the Environmental Mutation Society. She has created independent strong research groups in the field of toxicogenomics in Mexico, and has mentored and trained more than 100 graduate and undergraduate students, some of them are now well recognized researches national- and internationally. She has received several awards highlighting her commitment in mentoring, such as the "Student Educator Award" from the Environmental Mutation Society in 2005, and the Heberto Castillo Prize in 2007, in the category of Health, Biotechnology and Environment, awarded by the Institute of Science and Technology of the Mexico City. Dr. Ostrosky is an example for her tenacity, work, dedication and passion for science.

Plenary keynote lectures:

We had the honor of having the participation of 6 extraordinary and distinguished speakers (plenary keynote and distinguished speakers) who enriched the ICT2016 program. Some of them partially supported their travel expenses. They were:



Dr. Maria Neira (Director of Public Health and Environment Department-WHO)



Dr Linda Birnbaum (Director of USA-NIEHS)



Dr. Phillip Landrigan (Arnhold Institute for Global Health, Mount Sinai, NY, USA)



Dr. Jiang Guibin (Professor of Environmental Chemistry & Toxicology, Chinese Academy of Sciences)





Distinguished Lectures:

Dr. Ellen Silbergeld (Johns Hopkins University, Baltimore, MD, USA)



Dr. Stefano Bonassi (IRCCS San Raffaele Pisana, Italy)



III.4.2 Invited speakers

The excellent quality of the scientific program was achieved thanks to the generous willingness of 181 invited speakers who agreed to come and participate in the symposia, workshops, round tables and CE courses. Once the sessions met the criteria, speakers and chair persons received a letter of invitation, once or more times until the final confirmation was received. The invited speakers had right to free registration to the congress, and a fixed amount as a grant for partly supporting their travel expenses upon arrival, according to their origin: \$1100 USD (USA and Canada), \$1250 USD (Europe), and \$1400 USD (Australia, Asia and Africa). For different reasons, some speakers asked us to cover their flight or hotel instead of the cash. The geographical distribution of speakers is shown in Table 2.

Table 2. Geographical distribution of invited speakers.

Region	# of speakers
Africa	2
Asia	18
Europe	55
Latin America	46
US and Canada	64
Total	185



III.5. Abstract Publication in Toxicology Letters

Abstracts of the congress were published in Toxicology Letters as a Special Supplement with the financial support of Cinvestav (Center of Research and Advanced Studies from the National Polytechnic Institute) Mexico City and the Mexican Society of Toxicology (SoMTox). The supplement was given in a USB memory stick to all attendees as part of the welcome kit (Figure 4), and it will be available at the congress and SoMTox (somttox.com.mx) web pages.

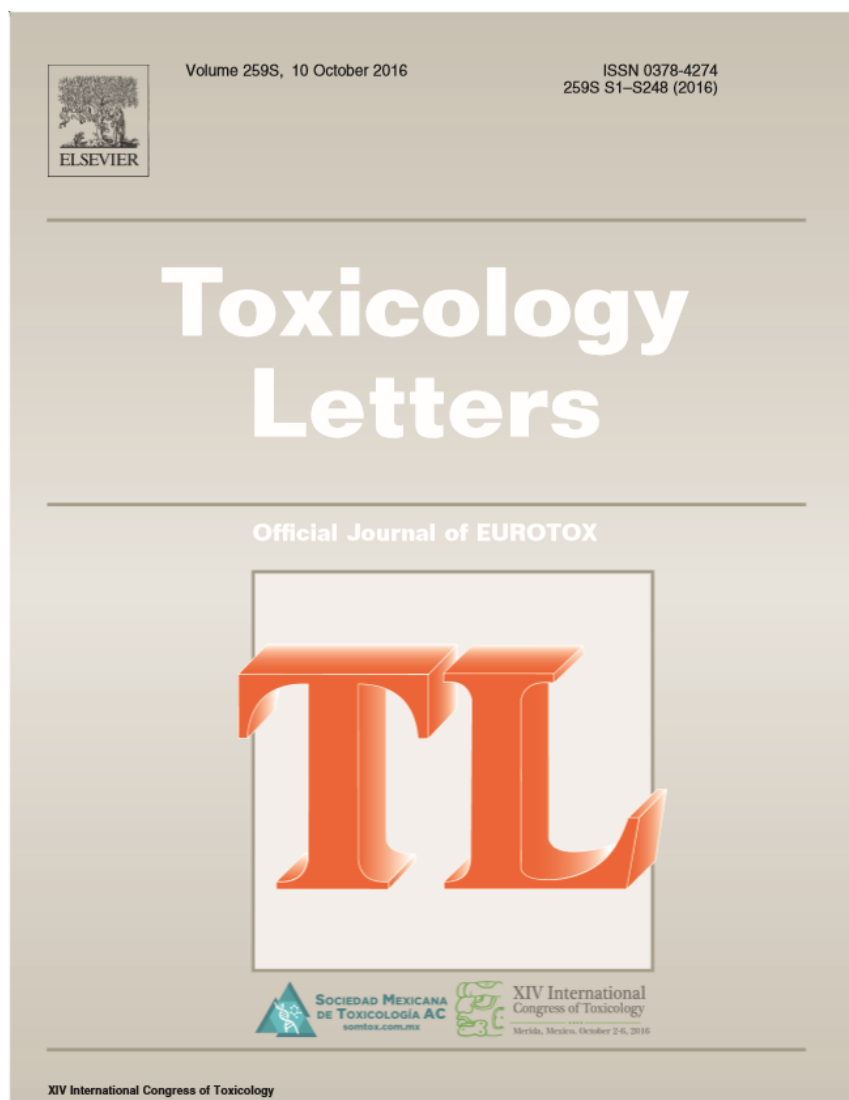


Figure 4. Special supplement of the congress in Toxicology Letters (Vol 259S, October, 2016).



IV. REGISTRATION

IV.1 Registration procedures

The registration process was performed via the ICT's website, and it was habilitated from December 1st, 2015 to September 30th, 2016. The registration fee for all attendees included: attendance to all scientific sessions, entry to the exhibit floor and poster hall, a welcome kit, a welcome reception ticket, and a lunch box (from October 3-5).

IV.2 Registration fees

Category	Early registration (Until June 30, 2016)	Standard registration (Jul 1-Aug 31, 2016)	Late registration/ On site (From Sep 1, 2016)
ALATOX Member*	\$300	\$350	\$400
ALATOX No member	\$500	\$550	\$650
Student	\$150	\$200	\$250
Accompanying person	\$150	\$200	\$200

*ALATOX: Latin-American Association of Toxicology. Fees are in USD.

IV.3 Attendance

The time course of registrations is shown in Figure 5. The total number of congress attendees was 859, who came from 53 countries of the 5 continents. Table 3 and Figures 6 and 7 show the distribution of registrations by country and by type of registration. Forty percent of attendees were professors, 36 % students, 22 % were invited speakers, and 2 % exhibitors.

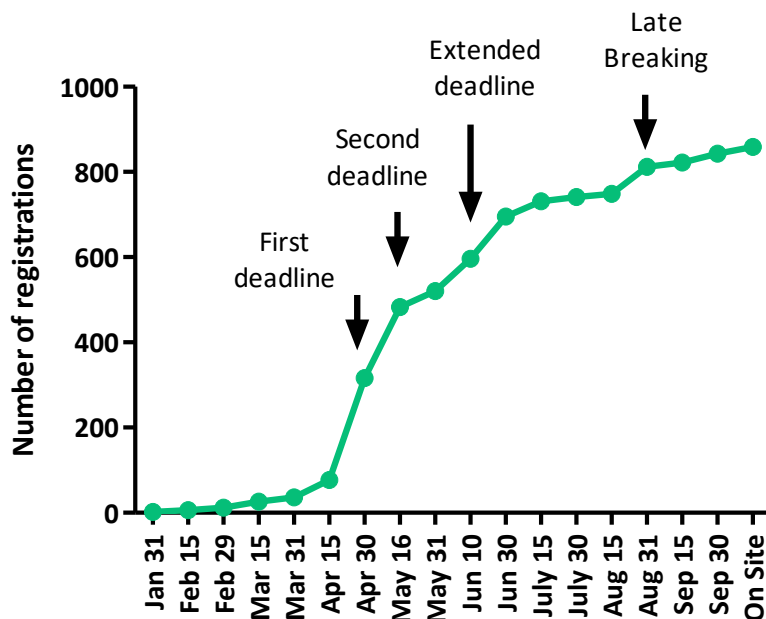


Figure 5. Time course of registrations.

Table 3. Summary of attendance of the congress.

Type	Number
Full	319
Students	305
Guests (invited speakers, awardees, committees, courtesies)	235
Total	859

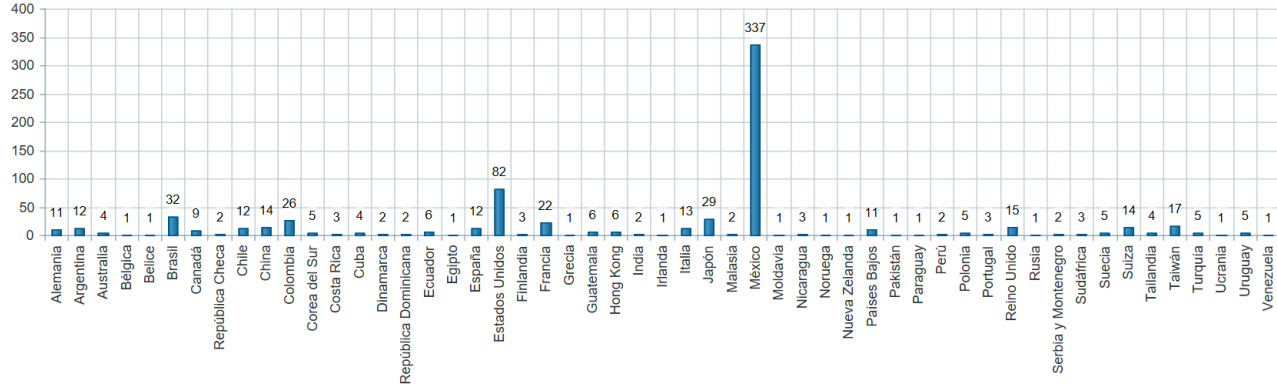
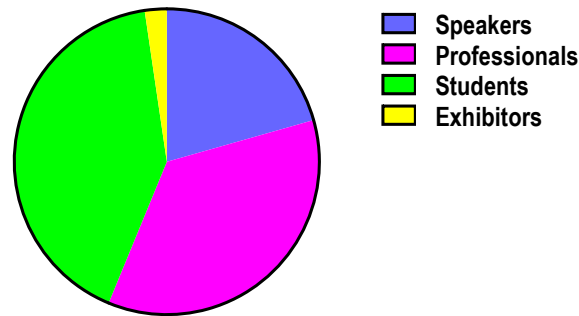


Figure 6. Registration distribution by country.



Total=859

Figure 7. Type of registration.

All registrants of the congress and CE courses received a diploma of attendance, and well as all the invited speakers. Some attendees asked for a diploma with the authors and name of the poster they presented.



**XIV International
Congress of
Toxicology**
In conjunction with the
**X Mexican Congress of
Toxicology**
Merida, Mexico. October 2-6, 2016

We certify that

has attended the XIV International Congress of Toxicology in conjunction with
the X Mexican Congress of Toxicology held in Merida, Mexico.

Merida, October 2-6, 2016

Betzabet Quintanilla Vega PhD
Congress President

Ma. Concepción Gutiérrez-Ruiz PhD
SoMTox President



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INTERNATIONAL UNION OF TOXICOLOGISTS



**XIV International
Congress of
Toxicology**
In conjunction with the
**X Mexican Congress of
Toxicology**
Merida, Mexico. October 2-6, 2016

We certify that

Juan Carlos Sánchez Meza

Presented the poster "Atmospheric depositions of
metals in soil and their bioaccumulation in field
and laboratory earthworms"

Merida, October 2-6, 2016


Betzabet Quintanilla Vega PhD
Congress President


Ma. Concepción Gutiérrez-Ruiz PhD
SoMTox President



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IV.4 Congress Kit

The congress kit included a bag made of the vegetable fiber Jute, a notebook with pen made of recyclable materials and a USB memory stick with the Supplement of Toxicology Letters with the abstracts of the congress. The congress badges were prepared in different colors for: Organizing Committee, Keynote and distinguished lecturer, Speaker, Sponsor, Exhibitor, Attendee, Companion and Staff.



Welcome kit



Congress badge

V. AWARDS AND FELLOWSHIPS

V.1 Merit Award

The selection of the Merit Award was a task of the IUTOX EC from the candidates proposed by the member societies of IUTOX. Dr. Curtis Klaassen was honored with this achievement for ICT2016.



Dr. Curtis Klaassen, joined the University of Kansas Medical Center in Kansas City, Kansas in 1968 where he spent over 45 years holding numerous positions including University Distinguished Professor as well as Chair of the Department of Pharmacology, Toxicology, and Therapeutics He received his Ph.D. in Pharmacology from the University of Iowa in 1968.



XIV International Congress of Toxicology Merida-Mexico October 2-6, 2016



Dr. Klaassen's research interests have centered on how we adapt to chemicals in the environment. Studies have included the regulation of xenobiotic transporters by nuclear receptors, age, and the intestinal microbiome; the mechanism of tolerance to cadmium toxicity by metallothionein; the importance of the transcription factor Nrf2 in protecting against the hepatotoxicity of chemicals; and mechanisms of chemical-induced thyroid tumors. He has published approximately 525 peer-reviewed articles and more than 80 review articles and chapters for books. Google Scholar indicates that he has an H factor of 101, which indicates that 101 of his publications have been cited more than 101 times.

As a leader in toxicology education, Dr. Klaassen has trained over 120 Ph.D. and Postdoctoral students, and so far three have been elected President of SOT and four received the Achievement Award from SOT. He is editor of *Casarett and Doull's Toxicology: The Basic Science of Poisons* since 1980, and was author of the toxicology section of *Goodman and Gilman's Pharmacological Basis of Therapeutics* from 1980 to 2005. He is Founder (1980) and Course Director of the Mid-America Toxicology Course, an annual postgraduate course to help prepare toxicologists for board examination, and has presented over 450 lectures around the world.

Dr. Klaassen has served the toxicology community by being the inaugural Editor-in-Chief of *Toxicological Sciences*, the new journal of SOT. He was associate editor of the *Journal of Pharmacology and Experimental Therapeutics* for 24 years and *Toxicology and Applied Pharmacology* for 10 years. He also served on numerous national and international committees. Dr. Klaassen was elected by his peers to many national and international offices in toxicology, including President of the Society of Toxicology (USA) in 1990-1991, as well as President of the International Union of Toxicology (1992-1995). He was also President of the Seventh International Congress in Toxicology in 1995 held in Seattle, Washington.

IUTOX is proud to add the 2016 Merit Award to the long list of awards to Dr. Klaassen has been honored with by numerous national and international organizations.

V.2. IUTOX Junior and Senior Fellowships

The funds for fellowships were raised by IUTOX, having the generous contribution of the American College of Toxicology, NIEHS, Bo Holmstedt Memorial Fund and Servier. The selection of the winners of these two fellowships was managed by IUTOX Educational Committee. Awardees received a letter of notification from the IUTOX Awards Committee and were waved of the registration fee and received a bursary of \$1000 and \$750 USD for Senior and Junior awards, respectively. Following are the lists of the awardees of the Junior and Senior Travel Awards.

JUNIOR IUTOX TRAVEL AWARDS

Alecsandra de Souza, University of Brasilia, Brazil. Abstract #PP9.3.

Aleksandra Buha, University of Belgrade-Faculty of Pharmacy, Serbia. Abstract #PP16.30.

Alla Tirsina, National Center of Public Health & University of Porto, Portugal. Abstract #PP18.11.



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Axel Mancebo, National Center for Laboratory Animals Breeding (CENPALAB), Cuba. Abstract #PP13.6.

Isabella Bramatti, Hospital University of Western Paraná, Brazil. Abstract #PP11.3.

Lam Yim Wan, The University of Hong Kong, China. Abstract #PP11.2.

Melissa Schulthess, Universidad Mayor, Chile. Abstract #PP3.6.

Shikha Sharma, Jamia Hamdard (Hamdard University), India. Abstract #PP17.11.

SENIOR IUTOX TRAVEL AWARDS

Danielle Oliveira, University of São Paulo, Brazil. Abstract #PP18.13.

José Belisario Leyva Morales, Universidad de Colima, Mexico. Abstract #PO.23.1.

Navasumrit Panida, Chulabhorn Research Institute & Chulabhorn Graduate Institute, Thailand. Abstract #PP8.4.

Yana González, National Center for Laboratory Animals Breeding (CENPALAB), Cuba. Abstract #PP13.7.

V.3. IUTOX Trainee Awards for Graduate Students

IUTOX Educational Committee also gave 3 awards for best posters presented by students: 1st, 2nd and 3rd place at \$500, \$200 and \$100 USD. The winners were selected by the Scientific Program Committee based on the recommendation of reviewers. The winners were:

1st place-Han-Hsing Tsou, National Yang-Ming University, Taiwan. Abstract #PP12.11.

2nd place-Silvia Carolina Moreno Rivas, Centro de Investigación en Alimentos y Desarrollo, Mexico. Abstract #PP16.19.

3rd place-Vicente Escamilla Rivera, Cinvestav-IPN, Mexico. Abstract #PP14.4.

V.4. IUTOX-SoMTox/CE courses-scholarships

IUTOX EC gave some scholarships for students members of SoMTox to attend the CE course “Water Security: Integrating Lessons Learned for Water Quality, Quantity and Sustainability”, which had the sponsorship of ICSU. Following is the list of the awardees, they were undergraduate or graduate students:

Alma Betsaida Benítez Trinidad
Mariana Cárdenas González
Yunuen Gama Domínguez
José Francisco Herrera Moreno
Laura Millán Mejía
Iris Betzaida Molina Pintor
Eliud García Montalvo

Mónica Rivera Rosas
Perla Yolanda Reyna Medina
Leticia Rafael Vázquez
Karla Karina Rojas Flores
Elisa Ruiz Suárez
Gloria Uicab Pool
Francisco Verdín Betancourt



Magaly Mayanin Morales Rodríguez
Fátima Elizabeth Murillo González
Néstor Ponce Ruíz
Diana Marcela Paredes Céspedes
Soledad Solís Ángeles

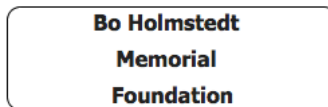
María del Carmen Xotlaniua Gervacio
Víctor Yáñez Pérez
Rigoberto Daniel Zepeda Arce
Roxana Mendoza Toxtle

VI. SPONSORSHIPS AND EXHIBITORS

VI.1. Sponsors list

We had the generous contribution and support of 30 national and international companies, organizations and institutions listed as follows according to the level of sponsorship and to which we express our gratitude:

DIAMOND SPONSORS



GOLD SPONSORS





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SILVER SPONSORS



BRONZE SPONSORS





VI.2. Exhibition Area

The exhibition area of the congress was located in the Chichen Itza room in the Convention Center, we had 16 booths, 14 isles to display 140 posters per day and a wide area for lunch and gathering (Figures 8-9).

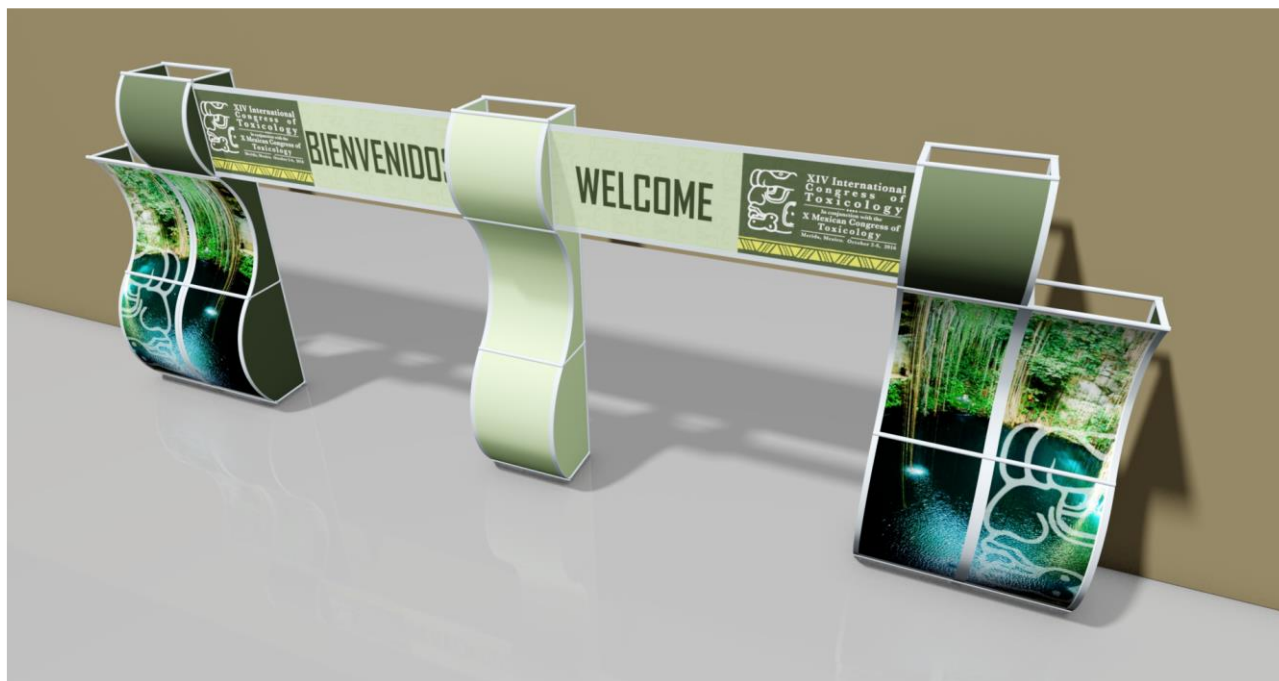


Figure 8. Entrance to the Exhibition Area in the Chichen Itza room.

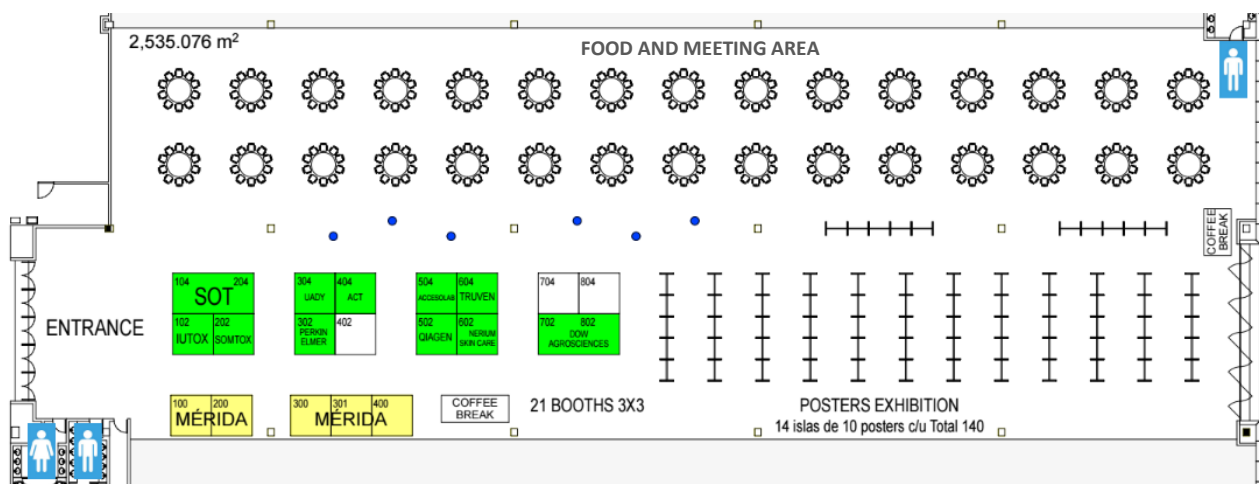


Figure 9. Exhibition area, including the booths, poster display and food and meeting areas (yellow areas were for local artisans).



VII. OFFICIAL PROGRAM

SYMPOSIA:

1. Emerging issues of immunotoxicity of pharmaceuticals
2. Effects of pesticides on human health and ways of prevention and control
3. Environmental pollutants, toxicity and influence on human health
4. *In vitro* microphysiological systems to predict toxicity (Partially sponsored by Center for Alternatives to Animal Testing)
5. Advances in mechanisms of nephrotoxicity (Partially sponsored by NANOTEC and Mexican Infant Environmental Health Network-RSAI)
6. Innovations in the human health risk assessment of chemicals (Partially sponsored by Dow Agrosiences)
7. Natural products: Can they be used in disease prevention? (Partially sponsored by Universidad Autónoma de México-UNAM)
8. Systematic reviews in toxicology (Sponsored by EFSA and Mexican Toxicology of Pesticides Network)
9. Human toxicomethylomics: From global DNA methylation to gene-specific 5 – hydroxymethylcytosine
10. The aryl hydrocarbon receptor after some 25 years (Sponsored by the National Institute of Environmental Health Sciences-NIEHS)
11. Nanomaterial toxicology, its progress and reflection to various applications, with special reference to carbon-based nanomaterials (Sponsored by the Japanese Society of Toxicology)
12. Advancing the 3Rs through global harmonization: Case studies and future perspectives (Sponsored by NC3R)
13. Mining and health (Sponsored by the Mexican Environmental Infant Health Network-RSAI)
14. Environmental Factors on Respiratory Immune Diseases (Sponsored by the National Institute of Environmental Health Sciences-NIEHS)
15. Human toxicity of pesticides. An inexorable burden to mankind?
16. Translating mechanistic toxicology discoveries to public health protection (Sponsored by the US-Society of Toxicology)
17. Environmental endocrine disrupting chemicals (Sponsored by the National Institute of Environmental Health Sciences-NIEHS)
18. Chromosomal instability
19. Paternal exposures, sperm health and reproductive success
20. Toxicology data information networks in the 21st century (Sponsored by: Croplife and the Mexican Toxicology of Pesticides Network)
21. Timely protection of public health from exposure to neurotoxicants in Latin America: Current challenges, and strategies to overcome them (Partially sponsored by the Mexican Toxicology of Pesticides Network)
22. Adverse effects of pesticide exposure on fetus and newborn infant



23. Listening to the Microbiome: What it says about Environmental Chemicals, Drugs, Disease and Toxicology (Partially sponsored by: HESI)
24. Organ-on-chip technology: Challenges and interpretation of the data
25. Toxicity of the new psychoactive substances – an epidemiological, mechanistic and clinical overview
26. Scientific tool for environmental studies in vulnerable populations: ECOHEALTH
27. Understanding multipollutant air mixtures health effects
28. Environmental exposures and neurotoxicity: Molecular mechanisms, epidemiology and risk assessment (Partially sponsored by the Mexican Toxicology of Pesticides Network)
29. Occupational toxicology and chemical risk assessment
30. Innovations in environmental epigenetics: Tales from endocrine disruptor to cancer
31. Adulterants and contaminants in herbal products, and ethnic remedies: New warnings and strategies for surveillance
32. Environmental causes of breast cancer (Partially sponsored by the Mexican Infant Environmental Health Network-RSAI)
33. IUPHAR: Influence of ethnicity, genetics and age on drug response and toxicity
34. Application of the adverse outcome pathway (AOP) concept to evaluate a link between pesticides and Parkinson's disease (Partially sponsored by the Mexican Infant Environmental Health Network-RSAI)

ROUND TABLES:

1. Toxicomics towards new era: New horizons of omics sciences (Sponsored by the Japanese Society of Toxicology)
2. Maternal exposure to nanoparticles – how does it affect the fetus? Status, mechanisms, and future directions

WORKSHOPS:

1. Developmental Toxicology. Different models, different endpoints
2. Global perspectives on safety, regulatory and risk assessment of food additives or contaminants
3. Food safety and environmental toxicology (Partially sponsored by the Mexican Toxicology of Pesticides Network)
4. Genomic biomarkers in risk assessment

CE COURSES:

1. Infant Health in Contaminated Sites (Sponsored by the Mexican Network of Environmental Infant Health-RSAI)
2. Water Security: Integrating Lessons Learned for Water Quality, Quantity and Sustainability (Sponsored by the International Council for Science-ICSU)



3. Management of patients presenting acute poisonings (Sponsored by the Mexican Network of Toxicology-RETOMEX)

PLATFORM SESSIONS:

Sessions

1. Air pollution
2. Ecotoxicology
3. Educational Toxicology
4. Endocrine Disruption
5. Environmental Epigenetics
6. Environmental Health
7. Human and Clinical Toxicology
8. Metabolism Biotransformation/Polymorphism
9. Metals
10. Molecular Toxicology
11. Nanotoxicology
12. Occupational Toxicology
13. Pesticides
14. Reproductive Toxicology
15. Target Organ Toxicity

LUNCH SEMINARS:

1. Policy Physicians Committee for Responsible Medicine (PCRM-USA)
2. Mentoring Forum, presented and supported by the Hispanic Organization of Toxicologists-US Society of Toxicology (HOT-SOT)
3. Global Collaboration Meeting- US Society of Toxicology (SOT)

MEETINGS OF NATIONAL AND INTERNATIONAL ORGANIZATIONS:

1. Mexican Network of Pesticides (Conacyt-Mexico)
2. Mexican Network of Environmental Infant Health (RSAI/Conacyt-Mexico)
3. Mexican Society of Toxicology (SoMTox) Annual Meeting
4. RITSQ (Spain)
5. Latino American Association of Toxicology (ALATOX).



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VIII. FINANCIAL REPORT

The Mexican economy has been slowing in the last years, with a challenging external environment that led in 2016 to a greater depreciation of the Mexican peso and other currencies against the US dollar. This economic situation was not favorable for fundraising of national sponsorships or to have the presence of exhibitors, even though they had shown their interest to participate and/or support the congress. This increased the expenses, reduced our incomes and therefore, the profits of the congress. The organizing committee, SoMTox EC and many others worked hard to have a good congress and we had it, but unfortunately not financially. Even with the reduced fees that we had for ALATOX members (Latin American Association of Toxicology), people from Latin America, including Mexico couldn't afford it, and we had only 450 registrations from the LA region, when we expected aprox. 700 attendees; not to mention that the registration of people from other countries was not what was expected. This illustrates the difficult economic situation for everybody. Notwithstanding, we are proud of the quality of the congress that met people from 53 countries. The financial report of the congress with the final figures is in Table 4.



Table 4. Financial report of the congress.

INCOME	US DOLLARS	EXPENSES	US DOLLARS
1- Registration	\$ 171,422.89	1- Venue	\$ 40,425.42
2- Sponsorships/ Exhibitors	\$ 148,580.70	2- Audio/visual & computer equipment	\$ 22,294.16
3- Sponsorship for awards	\$ 24,900.00	3- Scenography	\$ 40,050.43
4- Dinner	\$ 21,253.44	4- Registration	\$ 10,124.23
		5- Website	\$ 1,571.82
		6- Expo marketing, operation and management	\$ 7,185.44
		7- Welcome kit	\$ 3,172.00
		8- Welcome cocktail	\$ 11,041.38
		9- Box Lunch and coffee break	\$ 17,463.37
		10- Working lunch of IUTOX	\$ 865.35
		11- Closing Dinner	\$ 19,460.44
		12- Transportation (hotel-CC-hotel)	\$ 9,091.15
		13- Program Book	\$ 3,800.00
		14- Tox Lett on-line publication & USB memory sticks	\$ 26,880.78
		15- Internet free connection in the CC	\$ 5,314.00
		16- Invited speakers support and Awards	\$ 110,434.00
		17- Committee's accommodations	\$ 9,841.11
		18- Air Transportation (Invited speakers & Organizing Committee)	\$ 10,113.87
		19- Other Expenses (Organizing Committee)	\$ 2,399.25
		20- Agency fee	\$ 13,264.00
TOTAL INCOMES	\$ 366,157.03	TOTAL EXPENSES	\$ 364,792.20
BALANCE	\$ 1,364.83		



**XIV International Congress
of Toxicology
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We thank to all attendees and invited speakers who joined us in Merida for the XIV ICT and enjoyed the city, its food, handcrafts, ancestral history, the hospitality of the Yucatecan people, and the beautiful surroundings. We invite you all to be part of the next XV ICT in Hawaii, USA in 2019.



ICT2016 FINAL REPORT
Dr. Betzabet Quintanilla-Vega (President of the Congress)