

223rd OMICS Group Conference

Scientific Program



3rd International Summit on **Toxicology & Applied Pharmacology**

October 20-22, 2014 DoubleTree by Hilton Hotel Chicago-North Shore, USA



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Proposals are invited for organizing Symposia/Workshops at OMICS Group Conferences or OMICS Group will sponsor small events at your universities in related areas under the title of your own. These proposals can be sent to respective conference mail ids or to symposia@omicsonline.org

OMICS Group Conferences

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Versailles - B



08:30-08:55

Opening Ceremony

Keynote Forum

- 08:55-09:00 Introduction**
- 09:00-09:25 Gerhard Eisenbrand**
University of Kaiserslautern, Germany
- 09:25-09:50 Pavel Vodicka**
Institute of Experimental Medicine, Academy of Sciences, Czech Republic
- 09:50-10:15 Anne Marie Vinggaard**
Technical University of Denmark, Denmark

Keynote Symposium

- 10:15-11:00 Pluripotent stem cell models-Application in toxicology and beyond**
Carter Cliff, Cellular Dynamics International, USA

Group Photo

Coffee Break 11:00-11:20 @ Versailles Foyer

- Track 1: Clinical and Forensic Toxicology**
Track 2: Systems Toxicology
Track 3: Mechanistic and Predictive Toxicology

Session Chair: Anne Marie Vinggaard, Technical University of Denmark, Denmark
Session Co-Chair: Arunabha Ray, University of Delhi, India

Session Introduction

- 11:20-11:40 Decreased nuclear receptor activity mediates down-regulation of drug metabolizing enzymes in chronic kidney disease through epigenetic modulation**
Bradley L Urquhart, Western University, Canada
- 11:40-12:00 Underlying mechanisms indicative of autoimmunity in silica-exposed workers**
Mary L S Queiroz, State University of Campinas, Brasil
- 12:00-12:20 Updated and easier confirmation of drowning by detection of diatoms in trachea**
Neelam Shrivastava, Medico Legal Institute, India
- 12:20-12:40 Clinical and experimental studies on theophylline toxicity: In search for an antidote**
Arunabha Ray, University of Delhi, India
- 12:40-13:00 Influence of melatonin on arsenic mediated pancreatic damage in Swiss albino mice**
Dimple Damore, Bhavan's Sheth R.A. College of Science, India
- 13:00-13:20 Recent innovations in toxicology of nanomedicines with emphasis on RISUGadv**
R K Singh, CSIR- Central Drug Research Institute, India

Panel Discussion

Lunch Break 13:20-14:00 @ Monaco Grand Ballroom

- Track 4: Pediatric Toxicology**
Track 5: Toxicology and Applied Pharmacology

Session Chair: Hemant Misra, Prolong Pharmaceuticals, USA
Session Co-Chair: Sharda Shah Peshin, All India Institute of Medical Sciences, India

Session Introduction

- 14:00-14:20** **Designing clinical interference studies to address colorimetric assays**
Hemant Misra, Prolong Pharmaceuticals, USA
- 14:20-14:40** **Echocardiography: A non invasive method for investigating preclinical drug toxicity and safety**
Gilles Hanton, GH Toxconsulting, Belgium
- 14:40-15:00** **Electrochemistry meets enzymes: Investigation of the biotransformation pathway of C-1311 based on electrochemical simulation in comparison to *in vitro* methods**
Agnieszka Potęga, Gdańsk University of Technology, Poland
- 15:00-15:20** **Veterinary pharmacovigilance survey conducted in Tamil Nadu state, India: A status report**
Sarathchandra Ghadevaru, Tamil Nadu Veterinary and Animal Sciences University, India
- 15:20-15:40** **Small change, big difference: The discovery of drug candidate for anti-Schistosomiasis japonicum**
De-Qun Sun, Shandong University, P.R. China
- 15:40-16:00** **Alpha-lipoic acid produces bone-protective effects via modulating Nox4/ROS/NF-κB and Wnt/Lrp5/β-catenin signaling pathways in H₂O₂-treated MC3T3-E1 cells and ovariectomy rats**
Huijun Sun, Dalian Medical University, China

Coffee Break 16:00-16:20 @ Versailles Foyer

- 16:20-16:40** ***In vivo* and *in vitro* metabolism of aspirin eugenol ester in dog by liquid chromatography tandem mass spectrometry**
Jianyong Li, CAAS, P.R. China
- 16:40-17:00** **Cochlear cell death induced via cisplatin or gentamycin in combination with furosemide in rodents**
Li Xia, Shanghai 6th People's Hospital, China
- 17:00-17:20** **Studies on anti-diabetic properties and determination of harmful constituent in some anti-diabetic herbal preparations available in Bangladesh**
Begum Rokeya, BIRDEM, Bangladesh
- 17:20-17:40** **Toxicology studies and results for determining safety of a novel therapeutic dual carbon monoxide and oxygen delivery agent**
Hemant Misra, Prolong Pharmaceuticals, USA
- 17:40-18:00** **Effect of combined administration of vitamins C and E on some renal functions indices of rats exposed to nitrocellulose thinner**
Friday E Uboh, University of Calabar, Nigeria
- 18:00-18:20** **Toxicological study of new molecules in treating raw water to make it potable**
Isaac Julius Asiedu-Gyekye, University of Ghana, Ghana
- 18:20-18:40** **Improvement of QT analysis for evaluating the proarrhythmic risk of drug: The importance of spatial and temporal dispersion of repolarisation**
Gilles Hanton, GH Toxconsulting, Belgium
- 18:40-19:00** **Poisoning in children: A poisoning helpline experience**
Sharda Shah Peshin, All India Institute of Medical Sciences, India
- 19:00-19:20** **The paradox of human equivalent dose formula: A canonical case study of piroxicam (feldene) in monogastric animals**
Saganuwan Alhaji Saganuwan, University of Agriculture, Nigeria

Panel Discussion

18:30-19:30 Cocktails Sponsored by Journal of Clinical Toxicology @ Athens

Day 2 October 21, 2014

Versailles - B

Keynote Symposium

Session Introduction

- 09:00-09:45** **The Somatic Mutation and Recombination Test (SMART) in *Drosophila melanogaster***
Heres-Pulido M E, Universidad Nacional Autónoma de México, Mexico

09:45-10:30 Symposium on "Stress response in living organisms exposed to pollutants"

- 09:45-10:00** **How plants cope with abiotic stress**
Cinzia Forni, University of Rome Tor Vergata, Italy

10:00-10:15 **Stress response in living organism and laboratory animals to pollutants**
Hemant Misra, Prolong Pharmaceuticals, USA

10:15-10:30 **Environmental pollution, stress molecules and wildlife health**
S S Hundal, Punjab Agricultural University, India

Coffee Break 10:30-10:50 @ Versailles Foyer

Track 6: Application of Stem Cells in Toxicology

Track 7: Genetic Toxicology

Session Chair: Pavel Vodicka, Institute of Experimental Medicine, Academy of Sciences, Czech Republic

Session Co-Chair: Soon-Ha Kim, LG Life Sciences, Ltd., Korea

Session Introduction

10:50-11:10 **Mechanism of non-DNA targeted mutagenesis: The role of intra cellular nucleotide pool**
Siamak Haghdoost, Stockholm University, Sweden

11:10-11:30 **Necrotic inflammation: A novel class of necrosis inhibitor NecroX-7 with therapeutic potential for necrosis-related diseases against ischemic reperfusion injury**

Soon-Ha Kim, LG Life Sciences, Ltd., Korea

11:30-11:50 **Use of exfoliated buccal and nasal cells for the detection of acute and genotoxic effects caused by occupational and life-style exposures**

Georg Wultsch, Medical University of Vienna, Austria

11:50-12:10 **Genotoxicity evaluation of zaeralenone with the wing spot test in *Drosophila melanogaster***

Heres-Pulido M E, Universidad Nacional Autónoma de México, Mexico

12:10-12:30 **Phenytol induced toxic epidermal necrolysis**

Osama M Al-Quteimat, King Abdullah Medical City, Saudi Arabia

Panel Discussion

Track 8: Risk Assessment of Chemicals in Food

Track 9: Environmental and Occupational Health

Track 10: Industrial and Metallic Toxicology

Session Chair: Cinzia Forni, University of Rome Tor Vergata, Italy

Session Co-Chair: S S Hundal, Punjab Agricultural University, India

Session Introduction

12:30-12:50 **Pollutants toxicity towards aquatic macrophytes**
Cinzia Forni, University of Rome Tor Vergata, Italy

12:50-13:10 **Effect of the pendimethalin on rat uterine weight and gene expression of mRNAs encoding for different estrogen-regulated genes on rat uterus**

U Undeger Bucurgat, Hacettepe University, Turkey

13:10-15:10 **Poster Presentations @ Versailles Foyer**

Lunch Break 13:30-14:10 @ Monaco Grand Ballroom

15:10-15:30 **A new challenge: Assessment of metal prothesis intoxication**
Frederic J Deschamps, University Hospital of Reims, France

15:30-15:50 **Inhibition of terrestrial snails' glutamate decarboxylase (GAD) by abamectin and emamectin benzoate**

Elsayed A M Abdallah, Alexandria University, Egypt

15:50-16:10 **Immunotoxicity of acephate in white leghorn chickens: Effects on lymphocytes and the immune responses in a sub-chronic exposure study**

Syamantak Mani Tripathi, Chhattisgarh Kamdhenu Vishwavidyalya, India

Coffee Break 16:10-16:30 @ Versailles Foyer

16:30-16:50 **Environmental contaminants and reproductive abnormalities—A perspective**
S S Hundal, Punjab Agricultural University, India

16:50-17:10 **Surveillance of chloramphenicol residues in milk, eggs and chicken meat by LCMSMS**

Sarathchandra Ghadevaru, Tamil Nadu Veterinary and Animal Sciences University, India

17:10-17:30 **GC-MS Analysis of leaf powder of *Psychotria microphylla* and its acute toxicity on *Clarias giriepinus* juveniles**

Ibiam U A, Ebonyi State University, Nigeria

- 17:30-17:50 **Haematological indicators of exposure to petroleum products in petroleum refining and distribution industry workers in Nigeria**
Tobias I Ndubuisi Ezejirofor, Federal University of Technology, Nigeria
- 17:50-18:10 **Occupational exposure to lead and risk of high frequencies hearing loss in adults**
Masoumeh Ghasvand, Iran University of Medical Sciences, Iran

Panel Discussion

Young Researchers Forum

- 18:10-18:20 **Comparison of the cytotoxic effects of silver sulfide quantum dot coated with 2-mercaptopropionic acid and meso-2,3-dimercaptosuccinic acid in V79 cells**
Deniz Ozkan Vardar, Hitit University, Turkey
- 18:20-18:30 **Assessment of the litter size, birth weight and serum sex hormonal profile of rats orally exposed to crude oil**
Saviour Ufot, University of Calabar, Nigeria
- 18:30-18:40 **Comparative air quality of petroleum depots and refueling stations atmospheric environments in Nigeria**
Uduak O Luke, University of Calabar, Nigeria
- 18:40-18:50 **Genotoxic effects of exposure to sewage water in conservancy workers as assessed by comet test**
Rajlaxmi Basu, Institute of Hematology and Transfusion Medicine, India
- 18:50-19:00 **Studies on the effects of dietary exposure of Moringa oleifera Lam. leaves on insulin metabolism in rabbits**
Chinwe Christy Isitua, Universidad Tecnica de Machala, Ecuador

18:30-19:30 Cocktails Sponsored by Journal of Drug Metabolism & Toxicology @ Athens

Day 3 October 22, 2014

Versailles - B

Track 11: Emerging *In-vitro* Models for the Toxicity Studies
Track 12: Developmental and Reproductive Toxicology
Track 13: Computational Toxicology

Session Chair: Pierre Eftekhari, Inoviem Scientific, France
Session Co-Chair: Alessandra Mezzelani, National Research Council, Italy

Session Introduction

- 09:00-09:20 **Cytokine storm potential of siRNA in human PBMCs and DCs**
Travis Harrison, SRI International, USA
- 09:20-09:40 **New methodology for phenotyping P450 polymorphisms and susceptibility to environmental toxicants using humanized budding yeast**
Michael Fasullo, State University of New York, USA
- 09:40-10:00 **Nematic protein organization technology: A powerful tool to track drugs toxicity and side effects already at early preclinical development**
Pierre Eftekhari, Inoviem Scientific, France
- 10:00-10:20 **Sex-specific neurotoxicity as possible cause of regressive autism**
Alessandra Mezzelani, National Research Council, Italy
- 10:20-10:40 **Reproductive toxicity of cyto-static drugs and pharmacological ways to reduce it**
T G Borovskaya, The Goldberg Research Institute of Pharmacology, Russia

Coffee Break 10:40-11:00 @ Versailles Foyer

- 11:00-11:20 **The protective effect of astaxanthin on fetal alcohol spectrum disorder in mice**
Ying Peng, Sun Yat-Sen University, China
- 11:20-11:40 **The effects of veterinary growth stimulants from cattle feedlots in South Africa on reproductive and thyroid parameters in a rat model**
Christiaan de Jager, University of Pretoria, South Africa
- 11:40-12:00 **c-Jun N-terminal kinase is upregulated in the hypospadiac penis of fetal rats induced by maternal exposure to di-(2-ethylhexyl) phthalate**
Ming Yong Li, University of South China, China

12:00-12:20 **Easy and accurate conformation of early pregnancy during autopsy**

Neelam Shrivastava, Medico Legal Institute, India

12:20-12:40 **In vitro biocompatibility assessment of dental composite using confocal time lapse imaging**

Nina Attik, Lyon University, France

Panel Discussion

Track 14: Nanomaterials

Track 15: Particle and Fibre Toxicology

Track 16: Venomous Animals and Toxins

Track 17: Countersteps towards Toxicity

Session Chair: **Lúcia Helena Faccioli**, University of São Paulo, Brazil

Session Co-Chair: **Amita Srivastava**, All India Institute of Medical Sciences, India

Session Introduction

12:40-13:00 **Tityus serrulatus venom induces inflammation by mechanism dependent on lipid mediator release and lipid bodies' formation**

Lúcia Helena Faccioli, University of São Paulo, Brazil

Nanoparticle exposure assessment, dose metric and controls

13:00-13:20

Candace Su-Jung Tsai, Purdue University School of Health Science, USA

Lunch Break 13:20-14:00 @ Athens

14:00-14:20 **Protective effect of vitamins A and E against diesel fuel-induced hepatotoxicity in rats**

Friday E Uboh, University of Calabar, Nigeria

14:20-14:40 **Snake bite poisoning: A twelve years retrospective analysis of telephone calls reported to the National Poisons Information Centre, All India Institute of Medical Sciences**

Amita Srivastava, All India Institute of Medical Sciences, India

14:40-15:00 **Assessment of ZnO and SiO₂ nanoparticle permeability through blood-brain barrier and their toxicity using Evans blue and TEM**

Seong Soo A An, Gachon University, Republic of Korea

15:00-15:20 **Cell type- and size-dependent in vitro toxicity of silica particles in human skin cells**

Claudia Moia, Cranfield University, UK

15:20-15:40 **Toxicity analysis of PbS nanoparticles using nano-sized vesicles (exosome) excreted from HEK293 cells**

Eunjo Kim, Daegu Gyeongbuk Institute of Science and Technology (DGIST), Republic of Korea

Panel Discussion

Coffee Break 15:40-16:00 @ Versailles Foyer

Award Ceremony

Bookmark your dates



4th Global Summit on **Toxicology**

August 24-26, 2015 Philadelphia, USA



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