217th OMICS Group Conference

Scientific Program

OMICS Group Conferences
Accelerating Scientific Discovery

5th World Congress on Bioavailability and Bioequivalence Pharmaceutical R&D Summit

September 29-October 01, 2014 DoubleTree by Hilton Baltimore-BWI Airport, 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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Day 1 September 29, 2014

08:00-09:00 Registrations

Anna Polis

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09:00-09:25 **Opening Ceremony**

Keynote Forum

09:25-09:30 **Introduction**

09:30-09:55 **Sinerik Ayrapetyan**
UNESCO, Armenia

09:55-10:20 **Michael Retsky**
Harvard School of Health, USA

10:20-10:45 **Georg F Weber**
University of Cincinnati Academic Health Center, USA

Coffee Break 10:45-11:00 @ Foyer

11:00-11:25 **Sid Bhoopathy**
Absorption Systems, USA

Track 1: Emerging Bioavailability and Bioequialence Studies
Track 2: Bioanalytical Methodology

Session Introduction

Session Chair: Sinerik Ayrapetyan, UNESCO, Armenia
Session Co-Chair: Yahdiana Harahap, University of Indonesia, Indonesia

11:25-11:45 **Novel approach to enhance oral bioavailability of drugs with poor permeability**
Michael Zhuo Wang, University of Kansas, USA

11:45-12:05 **Reversible metabolic complexes for novel drug discovery**
Songon An, University of Maryland, Baltimore County, USA

12:05-12:25 **Strategies for establishing equivalence of complex drug products**
Sid Bhoopathy, Absorption Systems, USA

12:25-12:45 **Renal elimination of aristolochic acid I in the isolated perfused kidney model**
Mariana Babayeva, Touro College of Pharmacy, USA

12:45-13:05 **A bioequivalence study of quetiapine film coated tablets in Indonesian volunteers**
Yahdiana Harahap, University of Indonesia, Indonesia

Lunch Break 13:05-13:50 @ Eden's Landing Restaurent

13:50-14:10 **Intracellular water absorption is a primary sensor for extracellular and intracellular signals**
Sinerik Ayrapetyan, UNESCO, Armenia

14:10-14:30 **Expanding BCS-based biowaivers**
Lisa J Murray, Provenir, USA

14:30-14:50 **Impact of rHu-Epo supplementation on CRF induced neurobehavioral changes in rats: Studies on correlation with APP ratio, β amyloid and pTau expression**
P Venkataraman, SRM Medical College, India

14:50-15:10 **Synergism of antibiotics and plant extracts in antibacterial activity against methicillin resistant *Staphylococcus aureus***
Jency Blesson, Sree Buddha College of Engineering, India

15:10-15:30 **Analytical techniques for tracking counterfeit and substandard medicines**
Badr Aljohani, Queen Mary University of London, UK

15:30-15:50 **Micrometer-sized giant vesicles composed of amphiphilic random block copolymers prepared by photopolymerization-induced self-assembly**
Eri Yoshida, Toyohashi University of Technology, Japan

Coffee Break 15:50-16:05 @ Foyer

16:05-16:25 **Determination of clarithromycin in human plasma by liquid chromatography-electrospray ionization tandem mass spectrometry application to bioequivalence studies**
Syed N Alvi, King Faisal Specialist Hospital & Research Centre, Saudi Arabia

16:25-16:45 **The challenge of nanomaterial and environmental bioavailability (NEB) measures**
Camellia Moses Okpodu, Norfolk State University, USA

18:30-19:30 Cocktails Sponsored by **Journal of Bioequivalence & Bioavailability @ Foyer**

Day 2 September 30, 2014

Anna Polis

Keynote Forum

09:30-09:55 **Jim Jingjun Huang**
Ascendia Pharmaceuticals, USA

09:55-10:20 **P Venkataraman**
SRM Medical College, India

Track 3: Contemporary Challenges of Drug Design, Discovery and Development
Track 6: Relevance of Genetics to BA/BE in Drug Development
Track 7: Bioavailability, Bioequivalence and Drug Product Selection
Track 10: Metabolic Pathways and Changes in Nutrient Bioavailability

Session Chair: Dongfeng Tan, The University of Texas MD Anderson Cancer Center, USA
Session Co-Chair: P Venkataraman, SRM Medical College, India

10:20-10:40 **Design, synthesis, and bioevaluation of paeonol derivatives as potential anti-HBV agents**
Ming-Hua Hsu, National Tsing Hua University, Taiwan

Coffee Break 10:40-10:55 @ Foyer

10:55-11:15 ***In vitro/in vivo* correlation of fast release mephenamic acid microspheres in humans**
Aly H Nada, Kuwait University, Kuwait

11:15-11:35 **Functional Respiratory Imaging (FRI) to assess bio-equivalence of inhaled medication**
Jan De Backer, FLUIDDA, Belgium

11:35-11:55 **Design of drug delivery system for poorly water soluble drugs with enhanced bioavailability**
Jim Jingjun Huang, Ascendia Pharmaceuticals, USA

11:55-12:15 **Biobanking and its role in precision medicine**
Dongfeng Tan, The University of Texas MD Anderson Cancer Center, USA

12:15-12:35 **BCS-Based biowaivers: Which drugs are eligible?**
Anita Nair, Merck KGaA, Germany

12:35-12:55 **Simulating the suppression of mechanism for the pathogenic *E.coli* resistance to gentamicin**
I S Korotetskiy, Scientific Centre for Anti-Infectious Drugs, Kazakhstan

Lunch Break 12:55-13:40 @ Eden's Landing Restaurent

13:40-14:00 **Plant medicine and veterinary potential of antimicrobial peptides produced by entomopathogenic nematode symbiotic bacteria**
Habil Andras Fodor, Ohio State University, USA

14:00-14:20 **Chemical degradation of proteins: Novel pathways and products probed during accelerated stability studies**
Christian Schoneich, The University of Kansas, USA

14:20-14:40 **Development of curcumin solid lipid nanoparticle and assessment of pharmacokinetics and brain availability in Wistar rats**
Habibur Rahman, PSG College of Pharmacy, India

14:40-15:00 **Chemical modification of anticancer parasporins for decreasing of their toxicity**
Almas Okassov, Scientific Center for Anti-Infectious Drugs, Kazakhstan

15:00-15:20 **Formulation and evaluation of esomeprazole buccal patch**
Harsh Shah, Shankersinh Vaghela Bapu Institute of Pharmacy, India

15:20-15:40 **Pharmacogenomics of cancer therapeutics: Molecular structure, drug development and inter-patient variability**
Salah M Blaih, Kent State University, USA

Coffee Break 15:40-15:55 @ Foyer

15:55-16:15 **Control and treatment of ehrlich tumors implanted in mice by extremely low frequency electromagnetic waves at resonance frequency**
Fadel M Ali, Cairo University, Egypt

16:15-16:35 **Na,K-ATPase isoform-selective cardiac glycosides: A potential anti-cancer drug?**
Adriana Katz, Weizmann Institute of Science, Israel

16:35-16:55 **Pharmacokinetics of anti-tuberculosis drug on healthy volunteers: Results from the phase I clinical trial**
Rinat Islamov, Scientific Center for Anti-Infectious Drugs, Kazakhstan

16:55-17:15 **Efficiency of two-stage designs for crossover bioequivalence trials**
Sven Schnaidt, University of Heidelberg, Germany

15:00-16:00 Poster Presentations @ Foyer

18:30-19:30 Cocktails Sponsored by **Journal of Bioanalysis & Biomedicine @ Foyer**

Day 3 October 01, 2014

Anna Polis

Track 9: Need for Conducting BA/BE Studies
Track 12: Clinical Pharmacology and Therapeutics
Track 13: Translational Cancer Research and Anti Cancer Drug Discovery

Session Introduction

Session Chair: John P Marino, National Institute of Standards and Technology, USA
Session Co-Chair: Sungchul Ji, Rutgers University, USA

09:00-09:20	**BABE is a beautiful science but why is it only infrequently used in oncology?** **Michael Retsky,** Harvard School of Public Health, USA
09:20-09:40	**Clinical outcome in patients with cardiovascular pathologies treated with clopigogrel: Impact of genotype profile, clopidogrel metabolites PK and comedication on the clinical results** **Luigi Silvestro,** 3S-Pharmacological Consultation & Research GmbH, Germany
09:40-10:00	**Mathematical models of RNA expression profiles: Potential applications to drug discovery research and personalized medicine** **Sungchul Ji,** Rutgers University, USA
10:00-10:20	**Evaluation of the adhesion performance of different transdermal formulations by means of thermography in comparison with the classical visual approach as proposed by FDA** **Simona Rizea Savu,** 3S-Pharmacological Consultation & Research GmbH, Germany
10:20-10:40	**High-resolution NMR as a higher order structure assessment tool for protein therapeutics** **John P Marino,** National Institute of Standards and Technology, USA

Coffee Break 10:40-10:55 @ Foyer

10:55-11:15	**Pharmacokinetics and pharmacodynamics of thymoquinone as a novel agent in sepsis management** **Khalid M Alkharfy,** King Saud University, Saudi Arabia
11:15-11:35	**Cancer characteristics that may compromise drug efficacy** **Georg F Weber,** University of Cincinnati Academic Health Center, USA
11:35-11:55	**Assessing the bioavailability and bioequivalence of topical dermatologic drug products with multiple surrogate tests** **Thomas J Franz,** Cetero Research, USA
11:55-12:15	**Effects of carbamazepine on serum levels of folic acid and homocysteine** **Hasan Khaled,** Damascus University, Syria
12:15-12:35	**Role of Na,K-ATPase in human pancreatic and liver cancer** **Peiying Yang,** The University of Texas, USA
12:35-12:55	**Isoeugenol accelerates wound healing by attenuating pro-inflammatory markers and chemokine expression in diabetic mice** **Tajdar Husain Khan,** Salman Bin Abdulaziz University, Saudi Arabia

Lunch Break 12:55-13:40 @ Eden's Landing Restaurent

Bookmark your dates

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6th World Congress on
Bioavailability and Bioequivalence
BA/BE Studies Summit
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