

Day 1: August 07, 2017 @ Independence B

09:30-10:00 Opening Ceremony

Keynote Session

10:00-10:30 Advanced drug delivery: Nano-targeted delivery for therapeutic and imaging
Shaker A Mousa, The Pharmaceutical Research Institute, USA

10:30-11:00 Drug delivery to cellular organelles
Ludmil T Benov, Kuwait University, Kuwait

Networking and Refreshment Break 11:00-11:30 @ Foyer

11:30-12:00 **Workshop:** Impact of Nanobiotechnology on the future of medicine (Nanomedicine): The road toward precision medicine
Shaker A Mousa, The Pharmaceutical Research Institute, USA

10:30-11:00 Screening of preclinical formulations using a QbD risk based approach
Alphonso Higuera, Aztech Sciences Inc., USA

Lunch Break 12:30-13:30 @ Benjamin

Scientific Tracks

Drug Delivery Systems

Novel Drug Delivery Systems and Its Major Challenges

Controlled Drug Delivery Systems

Lipophilic Drug Delivery Systems

Chair: **Shaker A Mousa**, The Pharmaceutical Research Institute, USA

Co-Chair: **Emmanuel O Akala**, Howard University, USA

13:30-14:00 Reformulation of Spironolactone to produce an age appropriate oral liquid dosage form targeting the paediatric patient segment

Craig Allan Russell, Aston University, United Kingdom

14:00-14:30 Transfer model and its application in drug development

Anita Nair, Merck KGaA, Germany

14:30-15:00 Microfluidic-enabled manufacture of nucleic acid-based lipid nanoparticles: Modulating gene expression from bench towards the clinic

Peter S. Johnson, Precision NanoSystems Inc., Canada

15:00-15:30 *In Vitro* and *In-Vivo* evaluation of the developed Meloxicam tablets containing ball milled co-ground mixture with Peg 6000

Aly H Nada, Kuwait University, Kuwait

Networking and Refreshment Break 15:30-15:45 @ Foyer

15:45-16:15 pH-sensitive polymeric nanoparticles fabricated by dispersion polymerization for the delivery of bioactive agents

Emmanuel O Akala, Howard University, USA

16:15-16:45 Thermodynamic solvent activity and its significance in topical dosage forms

Muralikrishnan Angamuthu, GlaxoSmithKline Pharmaceuticals Ltd, USA

16:45-17:15 Utilizing a novel microfluidic viscometer to quantify properties of BSA protein solutions

Mike Gould, Formulacion Inc., USA

Day 2: August 08, 2017 @ Independence B

Keynote Session

10:00-10:30 Liver Papyrus: The first nomogram for individualized drug dosage and monitoring in patient with hepatic dysfunction
Gamal Hussein, South College School of Pharmacy, USA

10:30-11:00 SafePreg™: The first scoring system for safer medication use during pregnancy
Gamal Hussein, South College School of Pharmacy, USA

Networking and Refreshment Break 11:00-11:30 @ Foyer

Scientific Tracks

Micro and Nano Encapsulation Techniques

Pharmaceutical Nanotechnology

Pre-Formulation and Formulation Studies

Smart Drug Delivery Systems

Chair: **Gayathri Acharya**, GlaxoSmithKline Pharmaceuticals Ltd, USA

Co-Chair: **Jim Huang**, Ascendia Pharmaceuticals LLC, USA

11:30-12:00 Application of nano-technologies for the parental drug delivery
Jim Huang, Ascendia Pharmaceuticals LLC, USA

12:00-12:30 Optimization of cardiovascular Stent against restenosis: Factorial design-based statistical analysis of polymer coating conditions
Gayathri Acharya, GlaxoSmithKline Pharmaceuticals Ltd, USA

12:30-13:00 Using non-Invasive multiple light scattering for the analysis of vaccines and other pharmaceutical dispersions
Mike Gould, Formulacion Inc., USA

Lunch Break 13:00-13:30 @ Benjamin

- 13:30-14:00 A non-Destructive analytical technique to quantitate undissolved API in semi-solid topical dosage forms
Muralikrishnan Angamuthu, GlaxoSmithKline Pharmaceuticals Ltd, USA
- 14:00-14:30 A comparative study on the performance of Inert and functionalized spheres coated with solid dispersions made of two Structurally related Antifungal drugs
Naila A Mugheirbi, Purdue University, USA

Scientific Tracks

Food and Chemical Toxicology Advances in Pharmacology Research

Ocular Pharmacology Ethanopharmacology

Chair: **Daniel L Austin**, University of Rochester, USA

Co-Chair: **Alessandra Piccitto**, University College London, United Kingdom

- 14:30-15:00 Strategies, considerations, and outcomes in the development of an interdisciplinary course; "The Chemistry of Poisons"
Daniel L Austin, Lake Erie College of Osteopathic Medicine, USA
- 15:00-15:30 SynDiag – The new concept of prenatal diagnosis and therapy
Alessandra Piccitto, University College London, United Kingdom

Networking and Refreshment Break 15:30-15:45 @ Foyer

- 15:45-16:15 Use of bioactive extracts from plant (*Justicia pectoralis*) and animal species *Diplosolenodes occidentalis* (slug) in Jamaican Folklore practice to reduce asthmatic symptoms
Audrey Jacob, The University of the West Indies, West Indies
- 16:15-16:30 **Workshop: Anti-obesity *Heliotropium indicum***
M. Fatima Rose, Nova College of Pharmaceutical Education & Research, India
- 16:30-16:45 **Workshop: Anti-obesity *Heliotropium indicum***
Hassan Eaisa Mohamed Hamid, Nova College of Pharmaceutical Education & Research, India
- 16:45-17:15 Protective effect of Metoclopramide against organophosphorus compounds-induced apoptosis in the murine skin fibroblast L929
Ayman M Saleh, King Saud Bin Abdulaziz University for Health Sciences, Kingdom of Saudi Arabia

Posters Session 17:15-18:00 @ Foyer

Day 3: August 09, 2017 @ Independence B

Scientific Tracks

Smart Drug Delivery Systems Advances in Pharmacology Research Ocular Pharmacology

Cardiovascular Pharmacology Immuno Pharmacology

Chair: **Rubi Mahato**, Fairleigh Dickinson University, USA

Co-Chair: **Ayman M Saleh**, King Saud Bin Abdulaziz University for Health Sciences, Kingdom of Saudi Arabia

- 10:00-10:30 Analysis of glutamate metabolism in the diabetic retina: Effects of Gabapentin
Mohammad Shamsul Ola, King Saud University, Saudi Arabia
- 10:30-11:00 Smart multifunctional Erlotinib Loaded SPION as A biomarker for treatment response Prediction of Metastatic Cancers
Ahmed Atef Ahmed Ali, Taipei Medical University, Taiwan
- 11:00-11:30 Inhibition of matrix metalloproteinases attenuates the development of focal segmental glomerulosclerosis in experimental rats
Hanan H Hagar, King Saud University, Saudi Arabia

Networking and Refreshment Break 11:30-11:45 @ Foyer

- 11:45-12:15 Pharmacovigilance and compliance of drugs labeling Information with the 2015 FDA pregnancy labeling rule
Gamal Hussein, South College School of Pharmacy, USA
- 12:15-12:45 Role of cAMP-PDE inhibitors and nitric oxide modulators in experimentally induced rheumatoid arthritis in rats
Rishi Pal, King George's Medical University, India
- 12:45-13:15 DPP 4 inhibitors in the treatment of diabetes and their pharmacology
Abhishek Raj, Amol Pharmaceuticals, India

Lunch Break 13:15-13:45 @ Benjamin

- 13:45-14:15 Comprehensive analysis of the chemical composition and *In Vitro* cytotoxic mechanisms of *Pallines spinosa* flower and leaf essential oils against breast cancer cells
Ayman M Saleh, King Saud Bin Abdulaziz University for Health Sciences, Kingdom of Saudi Arabia
- 14:15-14:45 Microneedles in Drug Delivery
Rubi Mahato, Fairleigh Dickinson University, USA
- 14:45-15:15 Effect of liraglutide on ventricular transient outward K^+ (I_{to}) channel and connexin43 protein expression in a rat model of type 2 diabetes mellitus
Nehal M. Ramadan, Mansoura University, Egypt
- 15:15-15:45 Eosinophils and Platelets: Players of the game in morbid obese boys with metabolic syndrome
Lawal Ejiwunmi Shehu, Isolo Local Government, Nigeria
- 15:45-16:15 Targeting Lewis Y antigens
Somdutta Saha, GlaxoSmithKline Pharmaceuticals Ltd, USA

Closing Ceremony