

# Scientific Program

# World Drug Delivery Summit

August 17-19, 2015 Houston, USA



**OMICS International Conferences:**

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# Scientific Program

# World Drug Delivery Summit

August 17-19, 2015 Houston, USA

Day 1 August 17, 2015

08:30-09:30 Registrations

## Windsor-I



09:30-09:55

## Opening Ceremony

### Keynote Forum

- 09:55-10:00 **Introduction**
- 10:00-10:30 **M N V Ravi Kumar**  
Texas A&M Health Science Center, USA
- 10:30-11:00 **Mohammad Refaat Khattab**  
Cairo University, Egypt

Networking & Refreshments 11:00-11:15 @ Gallery

- 11:15-11:45 **Hidetaka Akita**  
Hokkaido University, Japan
- 11:45-12:15 **Saravanan Muniyandy**  
Monash University, Malaysia

Track 1: Drug Delivery and Pharmacology

Track 4: Nanotechnologies for Drug Delivery

Track 6: Biotherapeutics as Novel Technique in Drug Delivery

Session Chair: Alessandro Grattoni, Houston Methodist Research Institute, USA

Session Co-Chair: Laili Che Rose, University of Malaysia, Malaysia

Session Introduction

- 12:15-12:40 **Silicon nanochannel platforms for tightly controlled therapeutic release and immunisolated cell transplantation**  
Alessandro Grattoni, Houston Methodist Research Institute, USA
- 12:40-13:05 **Preparation, *in-vitro* evaluation, statistical optimization and application of Caco-2 cell line for *in-vitro* absorption mechanism of Carvedilol-loaded solid lipid nanoparticles for oral delivery**  
Mansi K Shah, Amneal Pharmaceuticals, USA

Lunch Break 13:05-13:45 @ Canterbury

- 13:45-14:10 **Exploiting nanomaterials for release on demand in drug delivery systems**  
Laili Che Rose, University of Malaysia, Malaysia
- 14:10-14:35 **Particle formed by ssPalm as a nanoDDS platform for the genes and nucleic acids**  
Hidetaka Akita, Hokkaido University, Japan
- 14:35-15:00 **Pharmaceutical evaluation of nano-fiber matrix supported drug delivery system using solvent-based electrospinning method**  
Nobuhito Shibata, Doshisha Women's College of Liberal Arts, Japan
- 15:00-15:25 **Impact of formulation viscosity on delivery of biotherapies**  
William Ying, Bristol Myers Squibb, USA
- 15:25-15:50 **Automated and high throughput approaches for formulation development of biopharmaceuticals**  
Russell Burge, Freeslate, Inc., USA
- 15:50-16:15 **High throughput formulation strategies for biotherapeutics**  
Rajiv Nayyar, HTD Biosystems Inc., USA

Networking & Refreshments 16:15-16:30 @ Gallery

- 16:30-16:55 **Bisphosphonates-loaded nanoparticles: Comparison between different nano-formulations**  
Samer R Abulateefeh, The University of Jordan, Jordan
- 16:55-17:20 **Tumor targeted hyaluronan grafted liposomes – Design and process development challenges**  
Hussaini Syed Sha Qhattal, DPT Laboratories, USA
- 17:20-17:45 **Transdermal drug delivery microporation and micropore life time enhancement**  
Steven A Giannos, Independent Consultant, USA
- 17:45-18:10 **Novel intravaginal delivery of antiretroviral-based microbicides for HIV prevention**  
Simi Gunaseelan, University of Texas, USA
- 18:10-18:35 **siRNA-based targeted gene therapies in cancer: Targeting EF2-kinase in solid tumors**  
Bulent Ozpolat, The University of Texas-MD Anderson Cancer Center, USA

#### Panel Discussion

Day 2 August 18, 2015

## Windsor-I

### Keynote Forum

- 10:00-10:30 **Mandip Sachdeva Singh**  
Florida A&M University, USA
- 10:30-11:00 **Nobuhito Shibata**  
Doshisha Women's College of Liberal Arts, Japan

Networking & Refreshments 11:00-11:15 @ Gallery

Track 7: Medical Devices for Drug Delivery, Therapy and Surgery

Track 9: Major Challenges and Future Opportunities in Drug Delivery

Session Chair: Mandip Sachdeva Singh, Florida A&M University, USA

Session Co-Chair: Nicholas Chinedu Obite, University of Nigeria, Nigeria

Session Introduction

- 11:15-11:40 **Strategies to improve dissolution rate of lyophilized high dose protein formulations**  
Mitra Mosharraf, HTD Biosystems Inc., USA
- 11:40-12:05 **Development of gummi drugs of Aripiprazole**  
Shinya Uchida, University of Shizuoka, Japan
- 12:05-12:30 **MITO-Porter, mitochondrial drug delivery system toward innovative therapy**  
Yuma Yamada, Hokkaido University, Japan
- 12:30-12:55 **Self-assembled starch excipients: From sustained release to chrono-delivery**  
Mircea Alexandru Mateescu, University of Quebec, Canada

Lunch Break 12:55-13:35 @ Canterbury

- 13:35-14:00 **Drug exposure during clinical drug development**  
Bernard Vrijens, MWV Healthcare, Belgium
- 14:00-14:25 **iCRT-deter; A new approach to abuse deterrent technologies using inorganic matrices for controlled release**  
Mark Cresswell, Lucideon, UK
- 14:25-14:50 **Device training and onboarding: Patient preference of smart training devices**  
Joe Jenson, Noble, USA
- 14:50-15:15 **Novel approach for oral drug delivery**  
Michael Zhuo Wang, University of Kansas, USA

#### Workshop

- 15:15-16:15 **Drug delivery from commercial prospective and applied practices**  
Mohammad Refaat Khattab, Cairo University, Egypt

Networking & Refreshments 16:15-16:30 @ Gallery

Poster Presentations 16:30-18:00 @ Gallery

Day 3 August 19, 2015

## Windsor-I

Track 1: Drug Delivery and Pharmacology

Track 3: Smart Drug Delivery System

Session Chair: Saravanan Muniyandy, Monash University, Malaysia

Session Introduction

- 10:00-10:25 **Irradiated carboxymethyl sago pulp hydrogel disc for ophthalmic sustained drug delivery: Ciprofloxacin uptake and release from pre cross-linked discs**  
Saravanan Muniyandy, Monash University, Malaysia
- 10:25-10:50 **Acid stable alginate micro capsules for the improvement of solubility and gastrointestinal stability of Artemether and Lumefantrine**  
Nicholas Chinedu Obite, University of Nigeria, Nigeria

**10:50-11:15** **Formulation and evaluation of a 2-component composite excipient microcrystalac as a filler-binder for direct compression**  
Abiodun Shittu, University of Ilorin, Nigeria

**Networking & Refreshments 11:15-11:30 @ Gallery**

**11:30-11:55** **Antimicrobial studies of arylidene acetophenone derivatives from benzimidazoles**  
Chippy Regi, St. James College of Pharmaceutical Sciences, India

**11:55-12:20** **The evaluation of supercritical fluid technology as a preparative technique for the manufacture of Flurbiprofen-methyl- $\beta$ -cyclodextrin inclusion complexes: An approach to enhance the solubility and dissolution properties**  
Shashi Ravi Suman Rudrangi, University of Greenwich, UK

**Young Researchers Forum**

**12:20-12:35** **SNEDDS is the key in a peptide protection towards luminal enzymes**  
Gintare Leonaviciute, University in Innsbruck, Austria

**12:35-12:50** **Efficacy of DOPE/DC-cholesterol liposomes and GCPQ micelles as AZD6244 nanocarriers in a 3D colorectal cancer *in-vitro* model**

Victor Lopez Davila, University College London, UK

**12:50-13:05** **Hollow calcium carbonate nanoparticles as pH-sensitive targeted delivery carriers in cancer therapy**  
Anjala Bulathge, University of Peradeniya, Sri Lanka

**B2B Meetings and Panel Discussions**

**Award Ceremony**

**Lunch Break 13:00-13:40 @ Canterbury**

