Scientific Program

World Drug Delivery Summit

August 17-19, 2015  Houston, USA
### Scientific Program

**World Drug Delivery Summit**

August 17-19, 2015  Houston, USA

#### Day 1  August 17, 2015

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>08:30-09:30</td>
<td>Registrations</td>
</tr>
<tr>
<td>09:30-09:55</td>
<td>Opening Ceremony</td>
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**Windsor-I**

#### Session Introduction

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>09:55-10:00</td>
<td>Introduction</td>
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<tr>
<td>10:00-10:30</td>
<td>M N V Ravi Kumar, Texas A&amp;M Health Science Center, USA</td>
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<tr>
<td>10:30-11:00</td>
<td>Mohammad Refaat Khattab, Cairo University, Egypt</td>
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#### Keynote Forum

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>11:15-11:45</td>
<td>Hidetaka Akita, Hokkaido University, Japan</td>
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<tr>
<td>11:45-12:15</td>
<td>Saravanan Muniyandy, Monash University, Malaysia</td>
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#### Track 1: Drug Delivery and Pharmacology

- **Session Chair:** Alessandro Grattoni, Houston Methodist Research Institute, USA
- **Session Co-Chair:** Laili Che Rose, University of Malaysia, Malaysia

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
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<tbody>
<tr>
<td>12:15-12:40</td>
<td>Silicon nanochannel platforms for tightly controlled therapeutic release and immunoisolated cell transplantation</td>
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<tr>
<td>12:40-13:05</td>
<td>Preparation, in-vitro evaluation, statistical optimization and application of Caco-2 cell line for in-vitro</td>
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<tr>
<td>13:45-14:10</td>
<td>Exploiting nanomaterials for release on demand in drug delivery systems</td>
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<td>14:10-14:35</td>
<td>Particle formed by ssPalm as a nanoDDS platform for the genes and nucleic acids</td>
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<td>14:35-15:00</td>
<td>Pharmaceutical evaluation of nano-fiber matrix supported drug delivery system using solvent-based</td>
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<tr>
<td>15:00-15:25</td>
<td>Impact of formulation viscosity on delivery of biotherapies</td>
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<td>15:25-15:50</td>
<td>Automated and high throughput approaches for formulation development of biopharmaceuticals</td>
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<tr>
<td>15:50-16:15</td>
<td>High throughput formulation strategies for biotherapeutics</td>
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#### Lunch Break 13:05-13:45 @ Canterbury

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

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

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-β-cyclodextrin inclusion complexes: An approach to enhance the solubility and dissolution properties
Shashi Ravi Suman Rudrangi, University of Greenwich, UK

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