Scientific Program

9th World Drug Delivery Summit
June 30-July 02, 2016   New Orleans, USA

Supporters

Hosting Organization:
Conference Series LLC
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Scientific Program  
Day 1  June 30, 2016

08:00-09:00 Registrations

Salon-3  09:00-09:25 Opening Ceremony

Keynote Forum

09:25-09:30  Introduction
Title: Toward full understanding of the EPR effect in primary and metastatic tumor, and issues of heterogeneity:
Hiroshi Maeda, Sojo University, Japan

09:30-09:55  Title: For tumor selective delivery and imaging using nano-particles
Hiroshi Maeda, Sojo University, Japan

09:55-10:20  Title: ACETAFLEX(TM): A novel breakable 12hr extended release Acetaminophen formulation
Damon Smith, Altus Formulation Inc., Canada

10:20-10:45  Title: Self-adjuvanting vaccine design to control fertility and prevent infectious diseases
Istvan Toth, The University of Queensland, Australia

Networking Break: 10:45-11:00 @ Foyer

11:00-11:25  Title: Drug delivery to the posterior segment of the eye- the challenges and the solutions
Irach B Taraporewala, Sitara Pharmaceutical Consulting Group, USA

Session Chair: Istvan Toth, The University of Queensland, Australia
Session Chair: Hiroshi Maeda, Sojo University, Japan

Track 1: Drug Delivery Technology
Track 2: Novel Drug Delivery Systems
Track 7: Vaccine Design and Delivery Technology
Track 8: Drug Delivery Companies and Markets

Session Introduction

11:25-11:45  Title: Droplet microfluidics: A tool to prepare polymeric microcarriers with complex morphologies for new drug delivery strategies
Christophe A Serra, University of Strasbourg, France

11:45-12:05  Title: Amorphous solid dispersions: Utilization and challenges in drug discovery and development
Yan He, Sanofi Aventis Group, USA

12:05-12:25  Title: Development of new protein vectors for the delivery of large therapeutic compounds to treat CNS disorders
Reinhard Gabathuler, biOasis Technologies Inc., Canada

12:25-12:45  Title: Biocompatible polymeric assembly as a HIV drug delivery system
Byeongwoon Song, University of California, USA
Title: Conformational epitopes-based lipopeptide vaccines against Schistosoma mansoni and Necator americanus
Mariusz Skwarczynski, University of Queensland, Australia

Lunch Break: 13:05-13:45 @ Saloon-5&6

13:45-14:05  Title: Systemic in vitro and in vivo evaluation of the feasibility of amorphous solid dispersion for a B-RAF (Rapidly Accelerated Fibrosarcoma) inhibitor
Yingqing Ran, Genentech Inc., USA

14:05-14:25  Title: Cellular vectors to enhance the pulmonary delivery of chemotherapeutics
Alessandro Parodi, Houston Methodist Research Institute, USA

14:25-14:45  Title: Evaluation of Polycaprolactone encapsulated vancomycin for controlled drug delivery from a bone void filling putty
Amanda E Brooks, North Dakota State University, USA
Title: Protein nanocarriers for drug delivery applications
Omathanu Perumal, South Dakota State University, USA

14:45-15:05  Title: The use of high throughput experimentation to enable a deeper understanding of drug behavior
Matthew N Bahr, GlaxoSmithKline, USA
Title: Cell penetrating peptides: Potent delivery vehicles that enable the generation of cytotoxic T cells against an antigenic cargo
Stefaan De Koker, Ghent University, Belgium

Networking & Refreshments Break: 15:45-16:00 @ Foyer

15:05-15:25  Title: Filamentous phage as platform for vaccine design and delivery
Tatiana Samoylova, Auburn University, USA
Title: Branched amphiphilic cationic oligo-peptides for delivery of HPV-16 DNA vaccines
Adriana Avila Flores, Auburn University, USA

15:25-15:45  Title: Self assembled photoadditives allow stop and go pharmacokinetic
Terry W J Steele, Nanyang Technological University, Singapore
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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Institution</th>
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<tbody>
<tr>
<td>17:00-17:20</td>
<td>Multistage vector delivery of Sulindac and Silymarin for prevention of colon cancer</td>
<td>Maria Principia Scavo, University of Kentucky, USA</td>
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<td>17:20-17:40</td>
<td>NDS with encapsulation and delivery efficiency to overcome tumor chemotherapeutic resistance</td>
<td>Xing-Jie Liang, Chinese Academy of Sciences, China</td>
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<td>10:00-10:25</td>
<td>Patient centric onboarding: How device trainers increase compliance</td>
<td>Joe Jensen, NOBLE, USA</td>
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<td>10:25-10:50</td>
<td>Development of new therapeutic approaches for pancreatic cancer treatment</td>
<td>Subhash C Chauhan, University of Tennessee Health Science Center, USA</td>
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<td>11:05-11:25</td>
<td>The ability of physiological variables to modulate nanomaterial behavior is an emerging concern for nano-based drug delivery techniques</td>
<td>Kristen K Comfort, University of Dayton, USA</td>
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<td>11:25-11:45</td>
<td>Mesoporous silica nanoparticles for sensitive 1H magnetic resonance imaging, fluorescence imaging, and Doxorubicin drug delivery</td>
<td>Kazuya Kikuchi, Osaka University, Japan</td>
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<td>11:45-12:05</td>
<td>Olanzapine and Methyl-β-cyclodextrin complexes: A legendary approach to enhance the solubility and dissolution properties</td>
<td>Shashi Ravi Suman Rudrangi, Bristol Laboratories, UK</td>
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<td>12:05-12:25</td>
<td>Potential therapeutic application of dendrimer/cyclodextrin conjugates with targeting ligands as advanced carriers for gene and oligonucleotides drugs</td>
<td>Hidetoshi Arima, Kumamoto University, Japan</td>
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<td>12:45-13:05</td>
<td>Delivery of antimicrobial peptides using hyaluronic acid nanogels: In vitro and in vivo trials</td>
<td>Miguel Gama, Minho University, Portugal</td>
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<td>13:45-14:05</td>
<td>Transfection by cell-penetrating peptides based on transportans</td>
<td>Ulo Langel, Stockholm University, Sweden</td>
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<td>14:05-14:25</td>
<td>Nanoparticle and microparticle-based drug delivery of ophthalmic pharmaceuticals</td>
<td>Irach B Taraporewala, Sitara Pharmaceutical Group, USA</td>
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<td>14:25-14:45</td>
<td>Self assembled photoadditives allow stop and go pharmacokinetic</td>
<td>Blessing Aderibigbe, University of Fort Hare, South Africa</td>
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<td>14:45-15:05</td>
<td>Trials and tribulations of novel drug delivery systems</td>
<td>Rajiv Nayar, HTD Biosystems, USA</td>
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<td>15:25-15:45</td>
<td>Liposome encapsulated Deferoxamine is a more effective Iron chelator than Desferal® in an Iron overloaded mouse model</td>
<td>Charles O Noble, ZoneOne Pharma, USA</td>
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<td>15:45-16:05</td>
<td>Complementary drug delivery systems to overcome biological barriers that characterize systemic treatment</td>
<td>Alessandro Parodi, Houston Methodist Research Institute, USA</td>
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<td>16:20-16:40</td>
<td>Prediction and prevention of protein aggregation in multi-dose products</td>
<td>Mitra Mosharraf, HTD Biosystems, USA</td>
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<td>16:40-17:00</td>
<td>Overcoming the cold-chain: Designing a novel freeze-stable vaccine</td>
<td>Aryo Sorayya, Engimata Inc., USA</td>
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### Poster Presentations from 16:00-17:00 @ Foyer

| DD001 | Title: Intradermal delivery of DNA vaccines targeting GnRHR          | Alexandre Samoylov, Auburn University College of Veterinary Medicine, USA |
|       | Title: Supramolecular derivatization of an antimalarial Imidazopyridazine drug lead | Terence J Noonan, University of Cape Town, South Africa |
|       | Title: Development of a process to prepare a coprocessed system by means of assembly of nanoparticles with pharmaceutical excipients | Huisuk Yang, Yonsei University, South Korea |
|       | Title: Analysis of PLGA molecular weight and structure by the latest advanced multi-detector GPC systems | Mark R Pothecary, Malvern Instruments Inc., USA |
|       | Title: Supramolecular derivatisation of an antimalarial Imidazopyridazine drug lead | Terence J Noonan, University of Cape Town, South Africa |
|       | Title: Smart Polymeric System (SPS) for lipophilic drug transfer delivery without using solvent via dissolving microneedles | Huisuk Yang, Yonsei University, South Korea |
|       | Title: Analysis of PLGA molecular weight and structure by the latest advanced multi-detector GPC systems | Mark R Pothecary, Malvern Instruments Inc., USA |
|       | Title: Development of a process to prepare a coprocessed system by means of assembly of nanoparticles with pharmaceutical excipients | Huisuk Yang, Yonsei University, South Korea |

### Day 3 July 02, 2016

**Track 4: Pharmaceutical Nanotechnology**

**Track 6: Smart Drug Delivery Systems**

**Track 11: Recent Advances in Drug Delivery**

**Track 12: Major Challenges in Drug Delivery**

**Session Introduction**

**Session Chair:** Alessandro Parodi, Houston Methodist Research Institute, USA

**10:00-10:20**

*Title: Improved antitumor activity and reduced cardiotoxicity of Epirubicin using hepatocyte-targeted nanoparticles combined with tocotrienols against hepatocellular carcinoma*

**Noha Nafee,** Alexandria University, Egypt

**10:20-10:40**

*Title: Delivery of epigenetic drugs against asbestos cancer*

**Philippe Bertrand,** University of Poitiers, France

**10:40-11:00**

*Title: A novel and minimally-invasive drug delivery system via dissolving microneedle injection*

**HyunGil Jung,** Yonsei University, South Korea

**11:00-11:20**

*Title: Development of anti-HIV double variable domain antibodies that bind both gp120 and gp41 on the envelope protein*

**Seth Pincus,** Children’s Hospital and LSU School of Medicine, USA

**Networking & Refreshments Break: 11:20-11:35 @ Foyer**

**Young Researchers Forum**

**11:35-11:50**

*Title: Enhancing neurogenesis and angiogenesis with targeted delivery of stromal cell-derived factor-1α by using a pH-sensitive polymer in a rat stroke model*

**Dong Hee Kim,** Sungkyunkwan University, South Korea

**11:50-12:05**

*Title: Modification of xanthan gum hydrogel with NaCMC biopolymer for controlled drug delivery*

**Julius Asi Gyabaah,** Cyprus International University, Cyprus

**12:05-12:20**

*Title: Coupling nanoprecipitation microfluidic techniques and spray drying for preparing high-quality dry-state drug-loaded monodisperse polymeric nanoparticles at high throughput*

**Shuakai Ding,** University of Strasbourg, France

**12:20-12:35**

*Title: Curcumin solid lipid nanoparticles for oral precancerous lesion treatment*

**Heba A Hazzah,** Alexandria University, Egypt

**12:35-12:50**

*Title: Delivery vehicle for the oral administration of Insulin: Development of Montmorillonite PLGA nanocomposites as drug delivery vehicle*

**Seema Lal,** University of Delhi, India

**Lunch Break: 12:50-13:30 @ Harry Lee-B**

**B2B Meetings & Award Ceremony**