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Scientific Program

9th World Drug Delivery Summit

June 30-July 02, 2016 New Orleans, USA



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Scientific Program

Day 1 June 30, 2016

08:00-09:00 Registrations

Salon-3

conferenceseries.com **09:00-09:25 Opening Ceremony**

Keynote Forum

09:25-09:30 Introduction

09:30-09:55 Title: Toward full understanding of the EPR effect in primary and metastatic tumor, and issues of heterogeneity: 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

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

Session Chair: Istvan Toth, The University of Queensland, Australia

Session Chair: Hiroshi Maeda, Sojo University, Japan

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

12:45-13:05 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

14:45-15:05 Title: Protein nanocarriers for drug delivery applications
Omathanu Perumal, South Dakota State University, USA

15:05-15:25 Title: The use of high throughput experimentation to enable a deeper understanding of drug behavior
Matthew N Bahr, GlaxoSmithKline, USA

15:25-15:45 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

16:00-16:20 Title: Filamentous phage as platform for vaccine design and delivery
Tatiana Samoylova, Auburn University, USA

16:20-16:40 Title: Branched amphiphilic cationic oligo-peptides for delivery of HPV-16 DNA vaccines
Adriana Avila Flores, Auburn University, USA

16:40-17:00 Title: Self assembled photoadditives allow stop and go pharmacokinetic
Terry W J Steele, Nanyang Technological University, Singapore

17:00-17:20	**Title: Multistage vector delivery of Sulindac and Silymarin for prevention of colon cancer** **Maria Principia Scavo,** University of Kentucky, USA
17:20-17:40	**Title: NDS with encapsulation and delivery efficiency to overcome tumor chemotherapeutic resistance** **Xing-Jie Liang,** Chinese Academy of Sciences, China

Panel Discussion

Day 2 July 01, 2016

Salon-3

Keynote Forum

10:00-10:25	**Title: Patient centric onboarding: How device trainers increase compliance** **Joe Jensen,** NOBLE, USA
10:25-10:50	**Title: Development of new therapeutic approaches for pancreatic cancer treatment** **Subhash C Chauhan,** University of Tennessee Health Science Center, USA

Networking Break: 10:50-11:05 @ Foyer

Track 4: Pharmaceutical Nanotechnology
Track 5: Nucleic Acid Based Drug Delivery
Track 9: Novel Bio therapeutics and Drug Delivery Systems

Session Introduction

Session Chair: Irach B Taraporewala, Sitara Pharmaceutical Consulting Group, USA

Session Chair: Subhash C Chauhan, University of Tennessee Health Science Center, USA

11:05-11:25	**Title: The ability of physiological variables to modulate nanomaterial behavior is an emerging concern for nano-based drug delivery techniques** **Kristen K Comfort,** University of Dayton, USA
11:25-11:45	**Title: Mesoporous silica nanoparticles for sensitive 19f magnetic resonance imaging, fluorescence imaging, and Doxorubicin drug delivery** **Kazuya kikuchi,** Osaka University, Japan
11:45-12:05	**Title: The evaluation of a single-step, organic solvent-free supercritical fluid process for the preparation of Olanzapine and Methyl-β-cyclodextrin complexes: A legendary approach to enhance the solubility and dissolution properties** **Shashi Ravi Suman Rudrangi,** Bristol Laboratories, UK
12:05-12:25	**Title: Insect virus-derived protein microcrystals for slow-release carriers of functional proteins** **Hajime Mori,** Kyoto Institute of Technology, Japan
12:25-12:45	**Title: Potential therapeutic application of dendrimer/cyclodextrin conjugates with targeting ligands as advanced carriers for gene and oligonucleotides drugs** **Hidetoshi Arima,** Kumamoto University, Japan
12:45-13:05	**Title: Delivery of antimicrobial peptides using hyaluronic acid nanogels: *In vitro* and *in vivo* trials** **Miguel Gama,** Minho University, Portugal

Lunch Break: 13:05-13:45 @ Harry Lee-B

13:45-14:05	**Title: Transfection by cell-penetrating peptides based on transportans** **Ulo Langel,** Stockholm University, Sweden
14:05-14:25	**Title: Nanoparticle and microparticle-based drug delivery of ophthalmic pharmaceuticals** **Irach B Taraporewala,** Sitara Pharmaceutical Group, USA
14:25-14:45	**Title: Self assembled photoadditives allow stop and go pharmacokinetic** **Blessing Aderibigbe,** University of Fort Hare, South Africa

Symposium

14:45-15:05	**Title: Trials and tribulations of novel drug delivery systems** **Rajiv Nayar,** HTD Biosystems, USA
15:05-15:25	**Title: The nanoassemblr platform: Novel nanoparticle engineering for delivery of the genetic toolbox** **Andrea L Armstead,** Precision NanoSystems Inc., Canada
15:25-15:45	**Title: Liposome encapsulated Deferoxamine is a more effective Iron chelator than Desferal® in an Iron overloaded mouse model** **Charles O Noble,** ZoneOne Pharma, USA
15:45-16:05	**Title: Complementary drug delivery systems to overcome biological barriers that characterize systemic treatment** **Alessandro Parodi,** Houston Methodist Research Institute, USA

Networking & Refreshments Break: 16:05-16:20 @ Foyer

16:20-16:40	**Title: Prediction and prevention of protein aggregation in multi-dose products** **Mitra Mosharraf,** HTD Biosystems, USA

16:40-17:00	**Title: Overcoming the cold-chain: Designing a novel freeze-stable vaccine** **Aryo Sorayya,** Engimata Inc., USA

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
DD002	**Title: Supramolecular derivatisation of an antimalarial Imidazopyridazine drug lead** **Terence J Noonan,** University of Cape Town, South Africa
DD003	**Title: Smart Polymeric System (SPS) for lipophilic drug transdermal delivery without using solvent via dissolving microneedles** **Huisuk Yang,** Yonsei University, South Korea
DD004	**Title: Analysis of PLGA molecular weight and structure by the latest advanced multi-detector GPC systems** **Mark R Pothecary,** Malvern Instruments Inc., USA
DD005	**Title: Development of a process to prepare a coprocessed system by means of assembly of nanoparticles with pharmaceutical excipients** **Serrano-Mora L E,** Universidad Nacional Autónoma de México, México
DD006	**Title: Bioscaffolds of copper doped hydroxylapatite nanoparticles containing 1, 6-Diisocyanatohexane-extended poly (1, 4-butylene succinate) with pH dependent drug delivery and degradation** **Kulwinder Kaur,** Guru Nanak Dev University, India
DD007	**Title: Investigation of silver coated xFe2O4 (x= Mn, Zn) doped hydroxylapatite ferromagnetic biomaterials for bone regenration and magnetically targeted drug therapy** **Vikas Anand,** Guru Nanak Dev University, India
DD008	**Title: Formulation of a natural intraoral dispersible film (Idf) for intraoral delivery of various natural drugs using edible rice paper film as the carrier vehicle** **Mukasa Eliphaz,** University of the Witwatersrand, South Africa
DD009	**Title: Porous poly (ethylene glycol)-polyurethane scaffolds for onsite delivery of bone marrow stem cells protects from oxidative stress and potentiates wound tissue repair** **Ramasatyaveni Geesala,** CSIR-IICT, India
DD010	**Title: Formulation and characterization of ethyl cellulose microspheres loaded with Lornoxicam** **Gamal Zayed,** Al-Azhar University, Egypt

Day 3 July 02, 2016

Harry Lee-A

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** **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** **Shukai 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