168th OMICS Group Conference

Scientific Program

4th International Conference and Exhibition on

Pharmaceutics & Novel Drug Delivery Systems

March 24-26, 2014 Hilton San Antonio Airport, San Antonio, USA

OMICS Group Conferences
Accelerating Scientific Discovery

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5716 Corsa Ave., Suite 110, Westlake Los Angeles, CA 91362-7354, USA
Phone: +1-650-268-9744, Fax: +1-650-618-1414, Toll free: +1-800-216-6499
Email: *pharmaceutica2014@omicsgroup.us, pharmaceutica2014@omicsonline.net*

Day 1 March 24, 2014

08:00-09:00 Registrations

Texas A

OMICS Group Conferences
Accelerating Scientific Discovery

09:30-09:55 **Opening Ceremony**

Keynote Forum

09:55-10:00 **Introduction**

10:00-10:25 **Panayiotis P. Constantinides**
Biopharmaceutical & Drug Delivery Consulting, LLC., USA

10:25-10:50 **Jason Vaughn**
Patheon Pharmaceuticals, USA

Coffee Break 10:50-11:05 @ Texas BC

11:05-11:30 **Tejraj M Aminabhavi**
Soniya College of Pharmacy, India

11:30-11:55 **Gjumrakch Aliev**
GALLY International Biomedical Research Consulting LLC, USA

11:55-12:20 **Konstantin Tsinman**
Pion Inc., USA

12:20-12:45 **Walter Rudzuski**
Texas State University, USA

Lunch Break 12:45-13:45 @ Texas BC

Group Photo

Track 1: Pre-formulation Considerations for Conventional Dosage Form Development
Track 2: Formulation Aspects for Various Routes of Drug Administration
Track 3: Recent Technologies in Novel Drug Delivery Systems

Session Chair: Panayiotis P. Constantinides, Biopharmaceutical & Drug Delivery Consulting, LLC., USA
Session Co-Chair: Erik Rytting, University of Texas, USA

Session Introduction

13:45-14:05 **Amorphous drug-polymer nanoparticles: An enabling drug delivery platform**
Michael Morgen, Bend Research Inc., USA

14:05-14:25 **Analysis of nanoparticles on particle-by-particle basis using Tunable Resistive Pulse Sensing (TRPS) technology**
Subhash Kalluri, Izon Inc., USA

14:25-14:45 **Chemistry and formulation-enabled drug delivery tools: Enabling discovery**
Sophie Dorothee Clas, PharmaSolv Consulting, Canada

14:45-15:05 **Nanoparticle eye drops demonstrate enhanced ocular penetration**
Koichi Baba, Osaka University, Japan

15:05-15:25 **Nanoparticle delivery of 2-Methoxyestradiol for uterine leiomyoma therapy**
Erik Rytting, University of Texas, USA

15:25-15:45 **Solid lipid nanoparticle formulations of Oligonucleotides**
Bo Ying, Dicerna Pharmaceuticals, USA

Coffee Break 15:45-16:00 @ Texas BC

16:00-16:20 **Continuous-flow microfluidic nanoprecipation for poorly soluble drug encapsulation in polymeric nanocarriers with tunable release properties**
Christophe A. Serra, The University of Strasbourg, France

16:20-16:40 **A novel supramolecular smart hydrogel drug delivery system**
Shao Xiang Lu, Broda International, LLC., USA

16:40-17:00 **Contract research and development at Southwest Research Institute (SwRI)**
James D. Oxley, Southwest Research Institute, USA

17:00-17:20 **Microencapsulation-Effective drug delivery system**
Kamran Atif, Arwan Pharmaceuticals Industries, Lebanon

17:20-17:40 **Design and *In-Vivo* evaluation of diclofenac sodium sustained release matrix tablet of : Effect of compression force**
Ibrahim M. El-bagory, Al-Jouf University, Saudi Arabia

17:40-18:00 **In Silico modeling penetration of xenobiotics through human skin**
Gabriel Wittum, University of Frankfurt, Germany

Panel Discussions

18:15-19:15 **Cocktails:** Sponsored by **Journal of Pharmaceutics & Drug Delivery Research** **@ Texas BC**

Day 2 March 25, 2014

Texas A

09:00:10:45 **Workshop**
"*Forecasting nano-enabled drug delivery* (NEDD) innovation pathways"
By Alan Porter, Georgia Tech, USA
Jing Ma, Beijing Institute of Technology, China
Tejraj M. Aminabhavi, Soniya College of Pharmacy, India
Walter Rudzuski, Texas State University, USA
Nagjibhai Jivani, Ribosome Pharma Pvt. Ltd., India

Track 4: Nanotechnology in Drug Delivery Systems
Track 5: Prodrugs for Targeted Drug Delivery

Session Chair: Muhammad Delwar Hussain, California Health Sciences University, USA
Session Co-Chair: Chandra Sekhar Kolli, California Health Sciences University, USA

Session Introduction

Coffee Break 10:45-11:00 @ Texas BC

11:00-11:20 **Study on brain targeting Zidovudine loaded PLGA nanoparticles for AIDS therapy**
Muhammad Delwar Hussain, California Health Sciences University, USA

11:20-11:40 **Controlling the characteristics of polymeric nanoparticles as carriers for the model peptide Capreomycin**
Mohsen A. Bayomi, King Saud University, Saudi Arabia

11:40-12:00 **Nanotechnology for improving response to cancer chemo and immunotherapy**
Afsaneh Lavasanifar, University of Alberta, Canada

12:00-12:20 **Formulation and evaluation of microcapsules using multiple emulsions as a novel drug carrier system**
Hanaa AM Elsaghir, King Saud University, Saudi Arabia

12:20-12:40 **Lactoferrin-Doxorubicin conjugates as platform for improved cellular delivery of Doxorubicin to target hypoxia**
Sneha Gurudevan, Deakin University, Australia

12:40-13:00 **Microneedle mediated transdermal delivery systems**
Chandra Kolli, California Health Sciences University, USA

Lunch Break 13:00-14:00 @ Texas BC

Track: 8 Physiological Considerations of Drug Delivery
Track 11: Regulatory Issues in Pharmaceutics and Novel Drug Delivery

Session Chair: Muhammad Delwar Hussain, California Health Sciences University, USA
Session Co-Chair: Chandra Sekhar Kolli, California Health Sciences University, USA

Session Introduction

14:00-14:20 **Fast dissolving drug delivery systems**
Gulay Yelken Demirel, Sanovel Pharmaceuticals, Turkey

14:20-14:40 **Rosuvastatin nanocrystals: Its preparation, characterization, and in vitro – in vivo evaluation**
Arvind Sharma, Chitkara University, India

14:40-15:00 **Vascular oxidative stress and mitochondrial failure in the pathobiology of Alzheimer's disease: Approach to therapy**
Jerzy Leszek, Wroclaw University School of Medicine, Poland

15:00-15:20 **Droplet microfluidics: A tool to fabricate polymeric drug microcarriers with complex morphologies for new delivery strategies**
Ikram Ullah Khan, University of Strasbourg, France

Coffee Break 15:20-15:35 @ Texas BC

15:35-15:55 **Stratification of surface lysine residues of bovine testicular hyaluronidase on the base of its 3D structure model: Design of chondroitin sulphate modified enzyme derivative**
Alexander V. Maksimenko, Russian Cardiology Research-and-Production Complex, Russia

15:55-16:15 **Formulation and optimization of orodispersible tabletsof Flutamide**
Kadria A. Elkhodairy, King Saud University, Saudi Arabia

16:15-16:35 **A promising approach to provide appropriate colon target drug delivery systems of Vancomycin HCl: Pharmaceutical and microbiological studies**
Azza S. Zakaria, King Saud University, Saudi Arabia

16:35-16:55 **Real-time attribute measurement in high shear wet granulation: An evolving paradigm**
Ajit Narang, Bristol Mayers Squib, USA

Panel Discussions

16:30-17:30 **Poster Presentations** @ Texas BC

Award Ceremony

18:15-19:15 **Cocktails:** Sponsored by **Pharmaceutica Analytica Acta** @ Texas BC

Day 3 March 26, 2014

Texas A

Track 6: Recent Advances in Targeted Drug Delivery
Track 7: Major Challenges in Drug Delivery Systems
Track 9: Advances in Biotherapeutics-Drug Discovery and Development
Track 10: Vaccine Drug Delivery Systems

Session Chair: Panayiotis P. Constantinides, Biopharmaceutical & Drug Delivery Consulting, LLC., USA

Session Co-Chair: Sophie Dorothee Clas, PharmaSolv Consulting, Canada

Session Introduction

09:30-09:50 **The conjugation of superoxide dismutase with catalase via chondroitin sulphate for targeting protection of vascular wall**
Alexander V. Maksimenko, Russian Cardiology Research-and-Production Complex, Russia

09:50-10:10 **Treatment of oral ulcers in dogs using adipose tissue-derived mesenchyme stem cells**
Eman Elashiry, King Abdulaziz University, Saudi Arabia

10:10-10:30 **Intranasal premedication in dental sedation**
Saad Abdel-Rahman Sheta, King Saud University, Saudi Arabia

Coffee Break 10:30-10:45 @ Texas BC

10:45-11:05 **Surface modified lipidnanocarriers for non-invasive oral delivery of biomacromolecule**
Rishi Paliwal, Irma Lerma Rangel College of Pharmacy, USA

11:05-11:25 **Inhaled Methoxyflurane sedation for wisdom tooth removal: A comparison to nitrous oxide sedation**
Walid Ahmed Abdullah, King Saud University, Saudi Arabia

11:25-11:45 **Nanotechnology enabled targeted therapy for seasonal and pandemic influenza; Opening a new window to anti-viral therapy**
Krishnan Chakravarthy, Nano Axis LLC., USA

Panel Discussions

Pharmaceutica-2015_Website Launch

Lunch Break 12:30-13:30 @ Texas BC

Bookmark your dates

OMICS Group Conferences
Accelerating Scientific Discovery

5th International Conference and Exhibition on
Pharmaceutics & Novel Drug Delivery Systems
March 09-11, 2015 Dubai, UAE



OMICS Group Inc.
2360 Corporate Circle, Suite 400
Henderson, NV 89074-7722, USA
Ph: +1-888-843-8169
Fax: +1-650-618-1417
omicsonline@omicsonline.com

OMICS Publishing Group
5716 Corsa Ave., Suite 110, Westlake
Los Angeles, CA 91362-7354, USA
Ph: +1-650-268-9744
Fax: +1-650-618-1414
omicsonline@omicsonline.org

OMICS Group
SEZ Unit, Building No. 20, 9th Floor
APIIC Layout, HITEC City
Hyderabad-500081, AP, INDIA
Ph: 040-40131823, 040-47482222
omicsgroup@omicsgroup.org

Toll free
USA & Canada: 1-800-216-6499
Australia: 1-800-651-097
Europe: 0805-080048