5th International Conference and Exhibition on

# Pharmaceutics & Novel Drug Delivery Systems

March 16-18, 2015 Crowne Plaza, Dubai, UAE

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**Day 1 March 16, 2015**

**08:30-09:30 Registrations**

## Jumeirah Ballroom-3

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**09:30-10:00 Opening Ceremony**

## Keynote Forum

**10:00-10:05** Introduction

**10:05-10:30** **R N Saha**
BITS Pilani Dubai Campus, UAE

**10:30-10:55** **Alex Nivorozhkin**
Neo-Advent Technologies LLC., USA

**Networking & Refreshments Break 10:55-11:10 Jumeirah Ballroom Foyer**

**11:10-11:35** **Khaled Mohamed Hosny**
King Abdulaziz University, Kingdom of Saudi Arabia

**11:35-12:00** **Peter Karpinski**
Novartis Pharmaceuticals Corp., USA

**Track 3: Recent Technologies in Novel Drug Delivery Systems**
**Track 4: Nanotechnology in Drug Delivery Systems**

**Session Chair: R N Saha,** BITS Pilani Dubai Campus, UAE
**Session Co-Chair: Luisa Fiandra,** Luigi Sacco University Hospital, Italy

**Session Introduction**

**12:00-12:20** **A novel and simple technique for separation of liposomes from unloaded drug molecules**
**Vignesh Muthuvijayan,** Indian Institute of Technology Madras, India

**12:20-12:40** **Polymer drug carriers with enhanced penetration into tumor cells**
**Robert Pola,** Institute of Macromolecular Chemistry AS CR, Czech Republic

**12:40-13:00** **Delivery of nanoformulated Antiretroviral drugs across the blood brain barrier**
**Luisa Fiandra,** Luigi Sacco University Hospital, Italy

**Lunch Break 13:00-13:40 @ Al Tanour Restaurant**

**13:40-14:00** **Block copolymers of poly(N-2-hydroxypropyl methacrylamide) and poly(propylene glycol)–the way to inhibit P-glycoprotein?**
**Alena Braunova,** Institute of Macromolecular Chemistry AS CR, Czech Republic

**14:00-14:20** **Early preclinical study of BO-1978 for the treatment of Non-Small Cell Lung Carcinoma (NSCLC), in combination with Gefitinib**
**Tann-Long Su,** Academia Sinica, Taiwan

**14:20-14:40** **Improving bioavailabilty of Resveratrol: Transdermal, transmucosal and nanotechnology strategies**
**Hudson Caetano Polonini,** Universityof Juiz de Fora, Brazil

**14:40-15:00** **Composite Poly(methyl methacrylate)/Poly(ethylene glycol) electrospunnanofibrous mats as a novel wound dressing for controlled release of an Anti-scarring agent**
**Malihe-Sadat Poormasjedi-Meibod,** University of British Columbia, Canada

**15:00-15:20** **Silica-based matrixes for drug delivery: Ready for a prime time?**
**Alex Nivorozhkin,** Neo-Advent Technologies LLC., USA

**15:20-15:40** **Formulation and evaluation of neutraceutical tablets of lyophilized nanoparticles of Zinc and Asparagus extracts**
**Sandeep Arora,** Chitkara University, India

**Networking & Refreshments Break 15:40-15:55 @ Jumeirah Ballroom Foyer**

**15:55-16:15** **Development of ligand-mediated drug delivery systems for cancer targeted imaging and therapy**
**Han-Chung Wu,** Academia Sinica, Taiwan

**16:15-16:35** **Enteric-coated Alendronate sodium solid lipid nanoparticle; A novel formula to overcome barriers for the treatment of osteoporosis**
**Khaled Mohamed Hosny,** King Abdulaziz University, Kingdom of Saudi Arabia

**16:35-16:55** **Exploring the critical stabilizing factors for solid dispersions without drug-polymer interaction: Monitoring and inhibiting amorphousamorphous phase separation**
**Min Zhao,** University College London School of Pharmacy, UK

**16:55-17:15** **Coping with the management of medicine at old age: What older people think? What formulations scientists can do?**
**Mine Orlu Gul,** University College London School of Pharmacy, UK

**Workshop**
**Controlled Drug Delivery Systems: Recent Challenges and Opportunities Ahead**

**17:15-17:35** **Bioactive peptides: Complex structures, synthesis and their controlled drug delivery**
**Rajiv Dahiya,** Association of Pharmacy Professionals and Globus College of Pharmacy, India

**17:35-17:55** **Guar gum revisited: Potential carrier for targeted drug delivery systems**
**Saurabh Dahiya,** Apeejay Stya University, India

**Panel Discussion**

## Day 2 March 17, 2015

## Jumeirah Ballroom-3

### Keynote Forum

09:30-09:55 **Husam M Younes**
Qatar University, Qatar

09:55-10:20 **B B Barik**
Jazan University, Kingdom of Saudi Arabia

Networking & Refreshments Break 10:20-10:35 @ Jumeirah Ballroom Foyer

**Track 2: Formulation Aspects for Various Routes of Drug Administration**
**Track 7: Major Challenges in Drug Delivery System**

**Session Chair: Naglaa G Ahmed**, Dubai Pharmacy College, UAE
**Session Chair: B B Barik**, Jazan University, Kingdom of Saudi Arabia

Session Introduction

10:35-10:55 **Gloveless robotic technologies in aseptic manufacturing for high potent active pharma ingredients**
**Sergio Mauri**, Fedegari Group, Italy

10:55-11:15 **Oral formulations of Metformin in semi-solid matrices: Design, characterization & *in vitro* evaluations**
**Husam M Younes**, Qatar University, Qatar

11:15-11:35 **Hepatoprotective and antihepatotoxicdrugs from plant sources**
**Naglaa G Ahmed**, Dubai Pharmacy College, UAE

11:35-11:55 **Small animal models of osteoarthritis: Understanding drug bio-distribution, activity, safety, therapeutic effects and mechanisms of action**
**Mohit Kapoor**, University of Toronto, Canada

11:55-12:15 **Mitigating risks associated to auto-injector applications**
**Robert Schultheis**, ZebraSci Inc., USA

12:15-12:35 **Chitosan nanoparticles - Challenges for antibiotic drug delivery using Penicillin as a model drug**
**B B Barik**, Jazan University, Kingdom of Saudi Arabia

12:35-12:55 **Challenges facing liposomal delivery of Vancomycin for combating bacterial biofilm on abiotic surfaces**
**Nawal Khalafallah**, Alexandria University, Egypt

Lunch Break 12:55-13:40 @ Al Tanour Restaurant

13:40-14:00 **Hydrogels of solid lipid nanoparticles of curcumin**
**Ruchi Chawla**, Indian Institute of Technology (Banaras Hindu University), India

14:00-14:20 **Ramadan fasting and biological biomarkers: The new opportunities of systems biology and omics sciences**
**Nicola Luigi Bragazzi**, University of Genoa, Italy

**Track 1: Pre-formulation Considerations for Conventional Dosage Form Development**
**Track 10: Advances in Biotherapeutics-Drug Discovery and Development**

**Session Chair: Mazzucchelli Serena**, Luigi Sacco University Hospital, Italy
**Session Chair: Maha Aboul-Ela**, Beirut Arab University, Lebanon

14:20-14:40 **Phytotherapeutic potentials of selected Middle East natural products**
**Maha Aboul-Ela**, Beirut Arab University, Lebanon

14:40-15:00 **Determination of Ticagrelor chemical stability and characterization of its degradants**
**Hassane Sadou Yaye**, University Paris Sud, France

15:00-15:20 **Evaluation of three chitin metal silicate co-precipitates as a potential multifunctional single excipient in tablet formulations**
**Faisal Al-Akayleh**, Petra University, Jordan

15:20-15:40 **Novel anti-microbial drugs based on mixed ligand zinc(II) complexes with bioactive carboxylates and nitrogen-donor ligands; Synthesis, structure and biological properties**
**H Abu Ali**, Birzeit University, Palestine

Networking & Refreshments Break 15:40-15:55 @ Jumeirah Ballroom Foyer

15:55-16:15 **Lead to drug candidate: Novel oral kinase inhibitors in cancer therapy**
**Hsing-Pang Hsieh**, National Health Research, Institutes, Taiwan

16:15-16:35 **Considerations in pre-formulation stage of solid and semi-solid dosage forms**
**Mustafa Hamido**, UAE

16:00-17:00 **Poster Presentations PNDDS 01- PNDDS 20** @ Jumeirah Ballroom-3
17:00-18:00 **Poster Presentations PNDDS 21- PNDDS 40** @ Jumeirah Ballroom-3

## Day 3 March 18, 2015

## Jumeirah Ballroom-3

**Track 4: Nanotechnology in Drug Delivery Systems**
**Track 6: Recent Advances in Targeted Drug Delivery System**

**Session Chair: Tomas Etrych**, Institute of Macromolecular Chemistry AS CR, Czech Republic
**Session Chair: Ramesh S Kashi**, Merck and Co. Inc., USA

Session Introduction

10:00-10:20 **Polymer based delivery systems for efficient tumor therapy**
**Tomas Etrych**, Institute of Macromolecular Chemistry AS CR, Czech Republic

10:20-10:40 **Nanocages for self-triggered nuclear delivery of Doxorubicin at cancer cells**
**Mazzucchelli Serena**, Luigi Sacco University Hospital, Italy

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|---|---|
| 10:40-11:00 | **Development of novel targeted drug delivery systems for the treatment of epilepsy**<br>**Sara Ahmadi,** Intelligent Polymer Research Institute, Australia |
| 11:00-11:20 | ***In vivo* targeting efficiency of multifunctional nanoconstructs bearing antibody-derived ligands**<br>**Marta Truffi,** University of Milan, Italy |
| | **Networking & Refreshments Break 11:20-11:35 @ Jumeirah Ballroom Foyer** |
| 11:35-11:55 | **Pastillation technology based design and development of oral modified release multiparticulate drug delivery system**<br>**B Mishra,** Indian Institute of Technology (Banaras Hindu University), India |
| 11:55-12:15 | **Incidence and predictors of antibiotic prescription errors in an emergency department of a tertiary care facility, central Saudi Arabia**<br>**Menyfah Al Anazi,** Ministry of National Guard Health Affairs, Kingdom of Saudi Arabia |
| 12:15-12:35 | ***In vitro* cytotoxicity and free radical scavenging activity of ethanolic and alkaloidic extracts of *Delphinium staphisagria***<br>**Rachad Alnamer,** University of Thamar, Yemen |
| 12:35-12:55 | **Title:Enhanced cytotoxic effect of chemically conjugated polymeric sirolimus against ht-29 colon cancer and a-549 lung cancer cell lines**<br>**Bontha Venkata Subrahmanya Lokesh,** UCSI University, Malaysia |
| 12:55-13:15 | **Synthesis of Benzopyrano[4,3-d]-Pyrimidine derivatives and some of their antimicrobial and cytotoxicity activities**<br>**Haya A Abubshait,** University of Dammam, Kingdom of Saudi Arabia |
| | **Lunch Break 13:15-13:55 @ Al Tanour Restaurant** |
| | **Young Researchers Forum** |
| 13:55-14:10 | **Mucus permeating SMEDDS containing thiolated compounds**<br>**Julia Rohrer,** University Innsbruck, Austria |
| 14:10-14:25 | **Thiolated silicone oils as novel skin care agents with enhanced adhesiveness and reinforced occlusivity**<br>**Alexandra Partenhause,** Leopold-Franzens-University, Austria |
| 14:25-14:40 | **Characterisation of nanostructured lipid carriers loaded with Ibuprofen**<br>**Blanka Suto,** University of Szeged, Hungary |
| 14:40-14:55 | **Thiolated poly(aspartic acid) polymers in ophthalmic therapy**<br>**Gabriella Horvat,** University of Szeged, Hungary |
| 14:55-15:10 | **Controlled, delivery of Metronidazole and Doxycycline from polycaprolactone matrices designed for the intravaginal treatment of pelvic inflammatory disease**<br>**Meenakshi Pathak,** The University of Queensland, Australia |
| 15:10-15:25 | **Microscopic evaluation of novel topical formulation for treatment of Arthritis**<br>**Mohit Bhagrath,** Chitkara University, India |
| | **Networking & Refreshments Break 15:25-15:40 @ Jumeirah Ballroom Foyer** |
| 15:40-15:55 | **Utility of modified locust bean gum for dissolution improvement of poorly soluble drug**<br>**Kanav Midha,** Chitkara University, India |
| 15:55-16:10 | **pH sensitive Calcium Carbonate-encapsulated Copper bis-(8-hydroxyquinoline) drug delivery system for cancer therapy**<br>**Anjala Bulathge,** University of Peradeniya, Sri Lanka |
| 16:10-16:25 | **Lipid complexed nanocrystals - A safe approach in development of stable nanoparticulates (*in vitro* and *in vivo*) for effective drug delivery**<br>**Sajeev Kumar B,** Jawaharlal Nehru Technological University, India |
| | **Panel Discussion** |
| | **Award Ceremony** |

## Bookmark your dates

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6th International Conference and Exhibition on

# Pharmaceutics & Novel Drug Delivery Systems

**March 07-09, 2016 Madrid, Spain**

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