2nd Edition of Global Conference on

PHARMACEUTICS AND DRUG DELIVERY SYSTEMS

June 04-06, 2018
Rome, Italy

The multifaceted aspects of drug delivery

VENUE
Holiday Inn Rome Aurelia
Via Aurelia, Km 8.400, 00165
Rome, Italy
Day 1 June 04, 2018 (Monday) @ Olimpica 2

08:00-08:40  Registrations

Moderator  Georgina Kate Such, University of Melbourne, Australia

08:40-09:00  Introduction

Keynote Presentations

09:00-09:40  Title: Next generation of drug delivery system: Stimuli-sensitive combination nanpreparations
Vladimir P. Torchilin, Northeastern University, USA

09:40-10:20  Title: Drug screening and targeting against the stem subpopulation of cancer cells
Esmaiel Jabbari, University of South Carolina, USA

10:20-11:00  Title: Targeting nanomedicine to the vascular endothelium
Vladimir Muzykantov, University of Pennsylvania the Perelman School of Medicine, USA

11:00-11:20  Coffee Break  @ Foyer

11:20-12:00  Title: Nanoparticle delivery of mitochondria-associated microRNA regulating inflammation in the central nervous system
Joe E. Springer, University of Kentucky, USA

12:00-12:40  Title: Signaling peptides for brain diseases: Delivery and action
Eugenia V. Gurevich, Vanderbilt University, USA

Oral Presentations

Session on: Nanomedicines and Cellular Delivery | Novel Developments In Drug Delivery System

Session Chairs: Vladimir P. Torchilin, Northeastern University, USA
Georgina Kate Such, University of Melbourne, Australia

12:40-13:00  Title: Understanding the Impact of nanoparticle structure on cellular response
Georgina Kate Such, University of Melbourne, Australia

13:00-13:20  Title: Overcoming the barriers to effective targeted drug delivery through stem cell-derived nano-ghosts
Marcelle Machluf, Technion – Israel Institute of Technology, Israel

Group Photo

13:20-14:10  Lunch Break  @ Hotel Restaurant

14:10-14:30  Title: Chimeric and multicompartment drug delivery systems: Lessons learned and future perspectives
Natassa Pippa, University of Athens, Greece
14:30-14:50 Title: Delivery of siRNA in vivo to the liver using redox sensitive and ionizable lipids
Daniel Zucker, NOF Europe GmbH, Germany

Title: Getting health allies from agriculture enemies: Plant viruses as smart nanoparticles for vaccine/drug delivery
Selene Baschieri, Italian National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA), Italy

15:10-15:30 Title: The influence of gut microbiota-mediated bile acid metabolism on the cellular response to therapeutics at the intestinal barrier
Elaine Frances Enright, University College Cork, Ireland

15:30-15:50 Title: Cyclodextrin-based photoactive liposomal nanoparticles for tumor targeting
Ilya Yakavets, Universite de Lorraine, France

15:50-16:10 Title: Arabinogalactan and glycyrrhizic acid as promising agents for oral drug delivery
Mikhail V. Khvostov, N.N. Vorozhtsov Institute of Organic Chemistry SB RAS, Russia

16:10-16:30 Title: Polyethyleneimine-based nanoparticles decorated with small molecules mimicking RGD peptide for targeted plasmid DNA delivery
Ali Dehshahri, Shiraz University of Medical Sciences, Iran

16:30-16:50 Coffee Break @ Foyer

GALA DINNER @ 20:00 HOTEL RESTAURANT

Day 2: June 05, 2018 (Tuesday) @ Olimpia 2
Moderator: Biana Godin, Houston Methodist Research Institute, USA

Keynote Presentations

09:00-09:40 Title: Physicochemical characterization of co-crystals and cyclodextrin inclusion complexes of bioactive molecules
Mino R. Caira, University of Cape Town, South Africa

09:40-10:20 Title: Peptide Delivery to the brain: A novel treatment for migraine
Gillian Hutcheon, Liverpool John Moores University, UK

Oral Presentations

Session on: Advanced drug delivery systems | Therapeutic Drug Carrier Systems | Preformulation Studies | In Vitro Models for Drug Screening | Biodrugs, Biomolecules and Therapeutics

Session Chairs:
Mino R. Caira, University of Cape Town, South Africa
Gillian Hutcheon, Liverpool John Moores University, UK
10:20-10:40 Title: Lipid based parenteral depots for biomolecules, an update on recent work
Gerhard Winter, LMU Munchen, Germany

10:40-11:00 Title: The effects of drug encapsulation into gellan gum matrix by the example of roxithromycin, naproxen and meloxicam
Tomasz Osmalek, Poznan University of Medical Sciences (PUMS), Poland

11:00-11:20 Coffee Break @ Foyer

11:20-11:40 Title: 5-Tiered (pre-) formulation approach to support toxicology studies
Marc Du Jardin, Janssen, Belgium

11:40-12:00 Title: Porous biodegradable particles for efficient transfollicular drug delivery
Yulia Svenskaya, Saratov State University, Russia

12:00-12:20 Title: Novel RNA-carbohydrate conjugates for modulation of LDLR and cholesterol by transcriptional silencing
Kira Astakhova, Technical University of Denmark, Denmark

12:20-12:40 Title: Myometrium-targeted liposomes for prevention of preterm labor
Biana Godin, Houston Methodist Research Institute, USA

12:40-13:00 Title: Poly (vinyl pyrrolidone) nanofibers as drug delivery of sildenafil citrate
Luis Jesus Villarreal Gomez, Universidad Autonoma de Baja California, Mexico

13:00-13:20 Title: The reversal of type 2 diabetes - the role of the bile acids
Gerald H Tomkin, Beacon Hospital and Trinity College Dublin, Ireland

13:20-14:10 Lunch Break @ Hotel Restaurant

14.10-14.50 - Workshop

Title: Challenges of in vitro drug release testing in case of advanced mucosal formulations
Mario Jug, University of Zagreb, Croatia

Oral Presentations

14:50-15:10 Title: New potential nanotechnology-based therapy with novel Gal-3 inhibitor for the treatment of rheumatoid arthritis
Nataliya Storozhylova, University of Santiago de Compostela, Spain

15:10-15:30 Title: New aerosol treatment for human nasal cavity through numerical simulation
Hadrien Calmet, Barcelona Supercomputing Center (BSC-CNS), Spain

15:30-15:50 Title: Numerical evaluation of exhalation through the nose treatment for eosinophilic chronic rhinosinusitis using computational fluid dynamics
Takahisa Yamamoto, National Institute of Technology, Gifu College, Japan

15:50-16:10 Title: Case presentation: Patient with metastatic pancreatic adenocarcinoma treated with nanoliposomal irinotecan combination therapy
Matej Dobravc Verbic, University Medical Centre Ljubljana, Slovenia
16:10-16:30  **Coffee Break**  @ Foyer

16:30-16:50  **Title:** Nanostructured biomaterials and technologies for bone regeneration  
**Marcelo Nacucchio,** University of Buenos Aires, Argentina

16:50-17:10  **Title:** Brain targeted nanotherapeutics: An enticing journey from ideation to product realization  
**Vandana B. Patravale,** Institute of Chemical Technology, India

17:10-17:30  **Title:** Investigations on the cytotoxic effect of gold nanoparticles synthesized using Ferulic acid on human epidermoid carcinoma (A431) cells  
**Lonchin Suguna,** Central Leather Research Institute, India

### 11.00-14.10 - Poster Presentations

**P1**  **Title:** Discovering multiple drug binding sites and modes with Wrap ‘n’ Shake  
**Monika Eniko Balint,** University of Pecs, Hungary

**P2**  **Title:** Thermoresponsive nanocarriers for doxorubicin delivery combined with hyperthermia  
**Ilya Yakavets,** Universite de Lorraine, France

**P3**  **Title:** In vivo siRNA delivery in whitefish: siRNA uptake and the efficacy of gene expression silencing  
**Pawel Brzuzan,** University of Warmia and Mazury in Olsztyn, Poland

**P4**  **Title:** Unnatural amino acids derived peptidomimetics with potent anti-biofilm activity  
**Jeong Kyu Bang,** Korea Basic Science Institute, Republic of Korea

**P5**  **Title:** Poly(glycolide-ε-caprolactone) and poly(glycolide-ε-caprolactone-D,L-lactide) coatings enriched with ciprofloxacin formed on metallic implants  
**Joanna Jaworska,** Polish Academy of Sciences, Poland

**P6**  **Title:** Dual-targeted biodegradable micelles for anticancer drug delivery  
**Katarzyna Jelonek,** Polish Academy of Sciences, Poland

**P7**  **Title:** PLGA nanoparticles co-delivering MDR1 and BCL2 siRNA for overcoming resistance of paclitaxel and cisplatin in recurrent or advanced ovarian cancer  
**Hyung Jun Ahn,** Korea Institute of Science and Technology, Republic of Korea

**P8**  **Title:** Non-invasive method for screening drug penetration in skin using different dermal drug delivery systems by Raman microscopy  
**Attila Gacsi,** University of Szeged, Hungary

**P9**  **Title:** Eucommia ulmoides ameliorates glucotoxicity by suppressing advanced glycation end-products in diabetic mice kidney  
**Sang Keun Ha,** Korea Food Research Institute, South Korea
<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Presenter</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>P10</td>
<td>Title: Study of penetration and analgesic and antiinflammatory effects of indomethacin nanoemulsion</td>
<td>Anayanti Arianto</td>
<td>University of Sumatera Utara, Indonesia</td>
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<tr>
<td>P11</td>
<td>Title: Quality evaluation of rifaximin tablets by an eco-friendly spectrophotometric method in the ultraviolet region</td>
<td>Ana Carolina Kogawa</td>
<td>Universidade Estadual Paulista – UNESP, Brazil</td>
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<tr>
<td>P12</td>
<td>Title: Radiolabeled drug/ligand loaded Micelles: Exploring diagnostic and therapeutic potentials for glioma through the intranasal route</td>
<td>Prashant G. Upadhaya</td>
<td>Institute of Chemical Technology, India</td>
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<tr>
<td>P13</td>
<td>Title: To be Announced</td>
<td>Yang Soo Kim</td>
<td>Asan Medical Center, University of Ulsan College of Medicine, Republic of Korea</td>
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<tr>
<td>P14</td>
<td>Title: The most sensitive neurodevelopmental period for the effects of methamphetamine on creating predisposition to drug addiction in adulthood</td>
<td>Ivana Hrebickova</td>
<td>Charles University, Czech Republic</td>
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**NETWORKING**

**Day 3 : June 06, 2018 (Wednesday) @ Olimpia 2**

**Keynote Presentations**

09:00-09:40  
Title: Drug delivery to the lungs from dry powder inhalers: Impact of the inhaler device and patient inhalation manoeuvre  
El Hassane Larhrib, University of Huddersfield, UK

09:40-10:20  
Title: Flexible analyses of population-based pharmaco-epidemiological studies of comparative effectiveness and safety of drugs  
Michal Abrahamowicz, McGill University, Canada

**Oral Presentations**

Session on: Pharmaceutical Research | Neuropharmacology | Emerging Technologies in Drug Delivery Systems

Session Chairs:  
El Hassane Larhrib, University of Huddersfield, UK  
Irina Ermolina, De Montfort University School of Pharmacy, UK

10:20-10:40  
Title: HEA-HEMA hydrogels: Composition effect on physicochemical and pharmaceutical properties  
Irina Ermolina, De Montfort University School of Pharmacy, UK

10:40-11:00  
Title: Cyclic GMP-AMP: A new hope for metabolic disease?  
Chaodong Wu, Texas A&M University, USA
11:00-11:20 Coffee Break @ Foyer

11:20-11:40 Title: Computational blind docking of ligands to drug targets: Methodology and applications
Csaba Hetenyi, University of Pecs, Hungary

11:40-12:00 Title: The competitive binding studies of CMP inhibitor and polysialic acid (polySia) to the polybasic polysialyltransferase domain (PSTD) in the polysialyltransferase
Guo-Ping Zhou, Guangxi Academy of Sciences, China

12:00-12:20 Title: The main trends in the developing novel therapeutics for alzheimer’s disease treatment
Sergey Bachurin, Russian Academy of Sciences, Russia

12:20-12:40 Title: Casein-based nanovehicles for oral delivery of chemotherapeutic combinations to overcome multidrug resistance in gastric cancer
Maya Bar-Zeev, Technion – Israel Institute of Technology, Israel

12:40-13:00 Title: Use of an inflating agent to engineer novel lactose carrier for inhalation and drug deposition in-vitro using three model drugs: Salbutamol, beclomethasone and fluticasone
Ursula Thevarajah, University of Huddersfield, UK

13:00-13:20 Title: Characterization of lactose carrier for dry powder inhaler formulations
Faiza Naseer, University of Huddersfield, UK

13:20-14:10 Lunch Break @ Hotel Restaurant

14:10-14:30 Title: EAAT3 proteins as a pharmacological target for the design of new antiepileptic drugs
Lourdes Amable Vega Rasgado, Escuela Nacional de Ciencias Biologicas del Instituto Politecnico Nacional, Mexico

14:30-14:50 Title: Hard alginate capsules shell as enteric capsules
Hakim Bangun, University of Sumatera Utara, Indonesia

14:50-15:10 Title: Synthesis and cytotoxicity studies on novel piperazinylacetamides
Enise Ece Gurdal, Yeditepe University, Turkey

15:10-15:30 Title: Stability studies on the formulations of inclusion complex of tenoxicam in SBE, β-cyclodextrin and beta cyclodextrin
K.V.R.N.S.Ramesh, RAK Medical & Health Sciences University, UAE

15:30-15:50 Title: Development and evaluation of self micro emulsifying drug delivery systems of itraconazole
Hemant K. S. Yadav, RAK Medical & Health Science University, UAE

15:50-16:10 Title: Microbiological pharmaceutical analysis: Better safe than sorry
Ana Carolina Kogawa, Universidade Estadual Paulista – UNESP, Brazil

16:10-16:30 Coffee Break @ Foyer

16:30-16:50 Title: Nature of naproxen enantiomers medicinal activity difference. Study by using model systems and modern physical methods.
Tatyana V. Leshina, Voevodsky Institute of Chemical Kinetics and Combustion SB RAS, Russia
16:50-17:10 Title: Nanoparticles in receptor-mediated drug delivery to brain parenchyma
Mehrdad Azarmi Aghajan, Shahid Beheshti University, Iran

17:10-17:30 Title: Methotrexate induced liver and renal toxicity management by cornus mas: Back to nature antioxidants in fighting drug side effects
Hassan Saeiahan, Iran University of Medical science, Iran

End Note

We wish to meet you again at

PDDS-2019

Conference Dates: June 27-29, 2019