2nd Edition of Global Conference on

PHARMACEUTICS AND DRUG DELIVERY SYSTEMS

JUNE 04-06, 2018
ROME, ITALY

VENUE
HOLIDAY INN ROME AURELIA
VIA AURELIA, KM 8.400, 00165
ROME, ITALY

THE MULTIFACETED ASPECTS OF DRUG DELIVERY
## Keynote Presentations

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00-09:40</td>
<td>Title: Next generation of drug delivery system: Stimuli-sensitive combination nanopreparations</td>
<td>Vladimir P. Torchilin</td>
<td>Northeastern University, USA</td>
</tr>
<tr>
<td>09:40-10:20</td>
<td>Title: Drug screening and targeting against the stem subpopulation of cancer cells</td>
<td>Esmaiel Jabbari</td>
<td>University of South Carolina, USA</td>
</tr>
<tr>
<td>10:20-11:00</td>
<td>Title: Targeting nanomedicine to the vascular endothelium</td>
<td>Vladimir Muzykantov</td>
<td>University of Pennsylvania the Perelman School of Medicine, USA</td>
</tr>
<tr>
<td>11:00-11:20</td>
<td>Coffee Break</td>
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<tr>
<td>11:20-12:00</td>
<td>Title: Nanoparticle delivery of mitochondria-associated microRNA regulating inflammation in the central nervous system</td>
<td>Joe E. Springer</td>
<td>University of Kentucky, USA</td>
</tr>
<tr>
<td>12:00-12:40</td>
<td>Title: Signaling peptides for brain diseases: Delivery and action</td>
<td>Eugenia V. Gurevich</td>
<td>Vanderbilt University, USA</td>
</tr>
</tbody>
</table>

## 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 |

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<tr>
<td>12:40-13:00</td>
<td>Title: Understanding the Impact of nanoparticle structure on cellular response</td>
<td>Georgina Kate Such</td>
<td>University of Melbourne, Australia</td>
</tr>
<tr>
<td>13:00-13:20</td>
<td>Title: Overcoming the barriers to effective targeted drug delivery through stem cell-derived nano-ghosts</td>
<td>Marcelle Machluf</td>
<td>Technion – Israel Institute of Technology, Israel</td>
</tr>
</tbody>
</table>

## Lunch Break

13:20-14:10 | Lunch Break                                                                 |                                        |                                       |
<p>| 14:10-14:30 | Title: Chimeric and multicompartment drug delivery systems: Lessons learned and future perspectives | Natassa Pippa                          | University of Athens, Greece           |</p>
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<tr>
<td>14:30-14:50</td>
<td>Delivery of siRNA in vivo to the liver using redox sensitive and ionizable lipids</td>
<td>Daniel Zucker, NOF Europe GmbH, Germany</td>
</tr>
<tr>
<td>14:50-15:10</td>
<td>Getting health allies from agriculture enemies: Plant viruses as smart nanoparticles for vaccine/drug delivery</td>
<td>Selene Baschieri, Italian National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA), Italy</td>
</tr>
<tr>
<td>15:10-15:30</td>
<td>The influence of gut microbiota-mediated bile acid metabolism on the cellular response to therapeutics at the intestinal barrier</td>
<td>Elaine Frances Enright, University College Cork, Ireland</td>
</tr>
<tr>
<td>15:30-15:50</td>
<td>Cyclodextrin-based photoactive liposomal nanoparticles for tumor targeting</td>
<td>Ilya Yakavets, Universite de Lorraine, France</td>
</tr>
<tr>
<td>15:50-16:10</td>
<td>Arabinogalactan and glycyrrhizic acid as promising agents for oral drug delivery</td>
<td>Mikhail V. Khvostov, N.N. Vorozhtsov Institute of Organic Chemistry SB RAS, Russia</td>
</tr>
<tr>
<td>16:10-16:30</td>
<td>Polyethylenimine-based nanoparticles decorated with small molecules mimicking RGD peptide for targeted plasmid DNA delivery</td>
<td>Ali Dehshahri, Shiraz University of Medical Sciences, Iran</td>
</tr>
<tr>
<td>16:30-16:50</td>
<td>Coffee Break</td>
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**NETWORKING**

**GALA DINNER @ 20:00 HOTEL RESTAURANT**

**Day 2 : June 05, 2018 (Tuesday) @ Olimpicia 2**

**Moderator**

Biana Godin, Houston Methodist Research Institute, USA

**Keynote Presentations**

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<td>09:00-09:40</td>
<td>Physicochemical characterization of co-crystals and cyclodextrin inclusion complexes of bioactive molecules</td>
<td>Mino R. Caira, University of Cape Town, South Africa</td>
</tr>
<tr>
<td>09:40-10:20</td>
<td>Peptide Delivery to the brain: A novel treatment for migraine</td>
<td>Gillian Hutcheon, Liverpool John Moores University, UK</td>
</tr>
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**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

13:20-13:40  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
P10  Title: Study of penetration and analgesic and antiinflammatory effects of indomethacin nanoemulsion  
Anayanti Arianto, University of Sumatera Utara, Indonesia

P11  Title: Quality evaluation of rifaximin tablets by an eco-friendly spectrophotometric method in the ultraviolet region  
Ana Carolina Kogawa, Universidade Estadual Paulista – UNESP, Brazil

P12  Title: Radiolabeled drug/ligand loaded Micelles: Exploring diagnostic and therapeutic potentials for glioma through the intranasal route  
Prashant G. Upadhaya, Institute of Chemical Technology, India

P13  Title: To be Announced  
Yang Soo Kim, Asan Medical Center, University of Ulsan College of Medicine, Republic of Korea

P14  Title: The most sensitive neurodevelopmental period for the effects of methamphetamine on creating predisposition to drug addiction in adulthood  
Ivana Hrebickova, Charles University, Czech Republic

NETWORKING

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

Moderator  Irina Ermolina, De Montfort University School of Pharmacy, UK

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
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<td><strong>Coffee Break</strong></td>
<td>@ Foyer</td>
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<tr>
<td>11:20-11:40</td>
<td>Title: Computational blind docking of ligands to drug targets: Methodology and applications&lt;br&gt;Csaba Hetenyi, University of Pecs, Hungary</td>
<td></td>
</tr>
<tr>
<td>11:40-12:00</td>
<td>Title: The competitive binding studies of CMP inhibitor and polysialic acid (polySia) to the polybasic polysialyltransferase domain (PSTD) in the polysialyltransferase&lt;br&gt;Guo-Ping Zhou, Guangxi Academy of Sciences, China</td>
<td></td>
</tr>
<tr>
<td>12:00-12:20</td>
<td>Title: The main trends in the developing novel therapeutics for alzheimer’s disease treatment&lt;br&gt;Sergey Bachurin, Russian Academy of Sciences, Russia</td>
<td></td>
</tr>
<tr>
<td>12:20-12:40</td>
<td>Title: Casein-based nanovehicles for oral delivery of chemotherapeutic combinations to overcome multidrug resistance in gastric cancer&lt;br&gt;Maya Bar-Zeev, Technion – Israel Institute of Technology, Israel</td>
<td></td>
</tr>
<tr>
<td>12:40-13:00</td>
<td>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&lt;br&gt;Ursula Thevarajah, University of Huddersfield, UK</td>
<td></td>
</tr>
<tr>
<td>13:00-13:20</td>
<td>Title: Characterization of lactose carrier for dry powder inhaler formulations&lt;br&gt;Faiza Naseer, University of Huddersfield, UK</td>
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<tr>
<td>13:20-14:10</td>
<td><strong>Lunch Break</strong></td>
<td>@ Hotel Restaurant</td>
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<tr>
<td>14:10-14:30</td>
<td>Title: EAAT3 proteins as a pharmacological target for the design of new antiepileptic drugs&lt;br&gt;Lourdes Amable Vega Rasgado, Escuela Nacional de Ciencias Biologicas del Instituto Politecnico Nacional, Mexico</td>
<td></td>
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<tr>
<td>14:30-14:50</td>
<td>Title: Hard alginate capsules shell as enteric capsules&lt;br&gt;Hakim Bangun, University of Sumatera Utara, Indonesia</td>
<td></td>
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<tr>
<td>14:50-15:10</td>
<td>Title: Synthesis and cytotoxicity studies on novel piperazinylacetamides&lt;br&gt;Enise Ece Gurdal, Yeditepe University, Turkey</td>
<td></td>
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<tr>
<td>15:10-15:30</td>
<td>Title: Stability studies on the formulations of inclusion complex of tenoxicam in SBE, β cyclodextrin and beta cyclodextrin&lt;br&gt;K.V.R.N.S.Ramesh, RAK Medical &amp; Health Sciences University, UAE</td>
<td></td>
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<tr>
<td>15:30-15:50</td>
<td>Title: Development and evaluation of self micro emulsifying drug delivery systems of itraconazole&lt;br&gt;Hemant K. S. Yadav, RAK Medical &amp; Health Science University, UAE</td>
<td></td>
</tr>
<tr>
<td>15:50-16:10</td>
<td>Title: Microbiological pharmaceutical analysis: Better safe than sorry&lt;br&gt;Ana Carolina Kogawa, Universidade Estadual Paulista – UNESP, Brazil</td>
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<td>16:10-16:30</td>
<td><strong>Coffee Break</strong></td>
<td>@ Foyer</td>
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<tr>
<td>16:30-16:50</td>
<td>Title: Nature of naproxen enantiomers medicinal activity difference. Study by using model systems and modern physical methods.&lt;br&gt;Tatyana V. Leshina, Voevodsky Institute of Chemical Kinetics and Combustion SB RAS, Russia</td>
<td></td>
</tr>
</tbody>
</table>
16:50-17:10  Title: Nanoparticles in receptor-mediated drug delivery to brain paranchyma
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

We wish to meet you again at PDDS-2019

3rd Edition of Global Conference on PHARMACEUTICS AND DRUG DELIVERY SYSTEMS

Conference Dates: June 27-29, 2019

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