

2<sup>nd</sup> 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 nanopreparations

**Vladimir P. Torchilin**, Northeastern University, USA

09:40-10:20 Title: Drug screening and targeting against the stem subpopulation of cancer cells

**Esmail 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 **Vladimir P. Torchilin**, Northeastern University, USA

Chairs : **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 multicompartiment 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
- 14:50-15:10 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: Polyethylenimine-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

## NETWORKING

## GALA DINNER @ 20:00 HOTEL RESTAURANT

### Day 2 : June 05, 2018 (Tuesday) @ Olimpcia 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 **Mino R. Caira**, University of Cape Town, South Africa  
 Chairs : **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

- 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) @ Olimpia 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 El Hassane Larhrib, University of Huddersfield, UK  
Chairs : 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,  $\beta$  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 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

## NETWORKING

### End Note

*We wish to meet you again at*

# PDDS-2019

3<sup>rd</sup> Edition of Global Conference on

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DRUG DELIVERY SYSTEMS**

Paris, France



**Conference Dates: June 27-29, 2019**

### Questions? Contact

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