

**PDDS 2017**

Global Conference on  
Pharmaceuticals and  
Drug Delivery Systems

*Novel Developments in Drug Delivery Systems*

Conference Program

*venue:*  
Eurostars Rey Don Jaime  
Av. de les Balears, 2, 46023  
Valencia, Spain

June 29- July 01, 2017 | Valencia, Spain



## Day 1 June 29, 2017 (Thursday) @ Salon Sorolla 2

### 08:00-08:40 Registrations

Moderator: Hanieh Khalili, University of East London, UK

### 08:40-09:00 Introduction

## Keynote Presentations

#### 09:00-09:40 Macrophage-stabilized drug crystals

Gus R. Rosania, University of Michigan College of Pharmacy, USA

#### 09:40-10:20 Engineered spatiotemporal delivery of morphogens for skeletal regeneration

Esmail Jabbari, University of South Carolina, USA

#### 10:20-11:00 Transfection by cell-penetrating peptides

Ulo Langel, Stockholm University, Sweden

### 11:00-11:20 Coffee Break @ Hall planta P

#### 11:20-12:00 Bioinspired Sequence-defined drug, protein and gene carriers by chemical evolution

Ernst Wagner, Ludwig-Maximilians-Universitat Munich and Nanosystems Initiative Munich, Germany

#### 12:00-12:40 Challenge and progress in delivering molecules to the brain

Teruna J. Siahaan, University of Kansas, USA

### Session on: Novel Developments In Drug Delivery System | Advanced Drug Delivery Systems

#### Session Chairs:

Ernst Wagner, Ludwig-Maximilians-Universitat Munich and Nanosystems Initiative Munich, Germany

Teruna J. Siahaan, University of Kansas, USA

#### 12:40-13:00 Targeted self-navigating multifunctional drug delivery vehicles driven by promiscuous landscape phage proteins

Valery A. Petrenko, Auburn University, USA

#### 13:00-13:20 Nucleic acid based amphiphiles as soft materials for nanomedicine

Philippe Barthelemy, University of Bordeaux, France

### Group Photo

### 13:20-14:10 Lunch Break @ Restaurante Albufera

#### 14:10-14:30 Patient centric drug delivery systems: ODT (Oral Disintegrating Tablet) and ODF (Oral Disintegrating Film)

Carmen Popescu, Roquette America, USA

#### 14:30-14:50 Formulation of liposomal doxorubicin modified with Bombesin peptide for selective targeting of GRP receptors over-expressed by cancer cells

Giancarlo Morelli, University of Naples Federico II, Italy

#### 14:50-15:10 Development of receptor targeted nanocomplexes for delivery of RNA therapeutics to the lung

Stephen Hart, UCL GOS Institute of Child Health, UK

#### 15:10-15:30 Drug delivery across the skin barrier using biocompatible thermoresponsive nanogels

Fiorenza Rancan, Charite - Universitätsmedizin Berlin, Germany

#### 15:30-15:50 Engineering endosomal escape using pHlexi particles

Georgina Kate Such, The University of Melbourne, Australia

#### 15:50-16:10 Aptamers as therapeutic agents in human cancers and evidence for glioblastoma targeting through the blood-brain-barrier of aptamer-functionalized nanosystems

Laura Cerchia, Istituto per l'Endocrinologia e l'Oncologia Sperimentale "G. Salvatore" (IEOS), Italy

16:10-16:30 **Coffee Break @ Hall planta P**

16:30-16:50 **Building a better antibody-based medicine: Antibody mimetic**  
Hanieh Khalili, University of East London, UK

16:50-17:10 **Oral delivery of lipophilic drugs: The solubility-permeability interplay and formulation design**  
Arik Dahan, Ben-Gurion University of the Negev, Israel

17:10-17:30 **Inhalable therapy of pulmonary Tuberculosis mediated by polysaccharide microparticles**  
Ana Margarida Grenha, University of Algarve, Portugal

Panel Discussion

## Day 2 June 30, 2017 (Friday) @ Salon Sorolla 2

Moderator: M. Teresa Carvajal, Purdue University West Lafayette, USA

### Keynote Presentations

09:00-09:40 **Driving endocytosis for enhancing cellular delivery and intracellular targeting of therapeutics**  
Arwyn T. Jones, Cardiff University, UK

09:40-10:20 **Cyclodextrins as reliable solubilization tools for BCS class II and IV drugs**  
Carmen Popescu, Roquette America, USA

10:20-11:00 **Dry powder inhalers - challenges and opportunities in delivering drugs to the lungs**  
El Hassane Larhrib, University of Huddersfield, UK

11:00-11:20 **Coffee Break @ Hall planta P**

11:20-12:00 **Crystal Engineering of alternative solid forms of therapeutic agents**  
Mino R. Caira, University of Cape Town, South Africa

12:00-12:40 **Anionophores, an emerging group of molecules to fight cancer**  
Ricardo Perez Tomas, University of Barcelona, Spain

**Session on: Formulation Technologies | Preformulation Studies | Biomedicine and Pharmacotherapy**

**Session Chairs:**

**El Hassane Larhrib, University of Huddersfield, UK**

**Mino R. Caira, University of Cape Town, South Africa**

12:40- 13:00 **Lipoprotein based drug delivery platform**  
Andras G. Lacko, University of North Texas Health Science Center, USA

13:00-13:20 **Impact of surface anisotropic forces on powder flowability**  
M. Teresa Carvajal, Purdue University West Lafayette, USA

13:20-14:10 **Lunch Break @ Restaurante Albufera**

14:10-14:30 **Novel ring-fused tetrapyrrolic macrocycles as very active photodynamic agents for cancer**  
Teresa M. V. D. Pinho e Melo, University of Coimbra, Portugal

14:30-14:50 **Ex-vivo intraocular model to investigate long-term protein stability in vitreous humor**  
Sulabh Patel, F. Hoffmann-La Roche Ltd, Switzerland

14:50-15:10 **Development of microparticles loaded with pine bark extracts and evaluation of its bioavailability on fish**  
Katherina Fernandez, University of Concepcion, Chile

15:10-15:30	<b>Can antibiotics treat cancer?</b> Rina Rosin-Arbesfeld, Tel-Aviv University, Israel
15:30-15:50	<b>Peptide-based therapeutics for the treatment of neurodegenerative diseases; challenges and opportunities</b> Eugenia V Gurevich, Vanderbilt University, USA
15:50-16:10	<b>Polymer-based combination therapeutics</b> Maria J. Vicent, Polymer Therapeutics Lab, Spain
16:10-16:30	<b>Coffee Break @ Hall planta P</b>
16:30-16:50	<b>Hydrogen sulfide: A novel mediator and therapeutic target for inflammatory disease</b> Madhav Bhatia, University of Otago, New Zealand
16:50-17:10	<b>Locust Bean Gum-based nanoparticles for oral immunization</b> Luis Braz, University of Algarve, Portugal
17:10-17:30	<b>Active loading of resveratrol in transferrin-functionalised liposomes using a pH gradient technique</b> Sarmad Al-Edresi, University of Manchester, UK
17:30-17:50	<b>Understanding intestinal permeability: The effect of intestine complexity on oral drug absorption</b> Arik Dahan, Ben-Gurion University of the Negev, Israel

## Poster Presentations 16:10-17:10

P1	<b>Oral delivery of a novel antibody domain (Vorabody™) for the treatment of Crohn's Disease</b> John Wahlich, John Wahlich (VHsquared Ltd), UK
P2	<b>Sustained and/or controlled delivery by core-shell polymer nanocapsules</b> Gemma Vilar, Leitat Technological Center, Spain
P3	<b>Development and evaluation of nanofibrous oral strips – new drug delivery system for poorly soluble drugs</b> Anna Kluk, Zentiva k.s, Czech Republic
P4	<b>Absorption enhancing capacity of dissolving microneedle arrayed patches</b> Booyong Lee, Raphas Co., Ltd, Republic of Korea
P5	<b>The effect of the inhalation manoeuvre parameters on the indacaterol drug deposition from Onbrez Breezhaler dry powder inhaler</b> Mohamad Abadelah, University of Huddersfield, UK
P6	<b>The applications of potential aromatic prodrugs in NTR based cancer therapy</b> Tugba Gungor, Canakkale Onsekiz Mart University, Turkey
P7	<b>A Pre-formulation study of recombinant human interleukins-1 receptor antagonist for emergency use</b> Amal Abukhares, University of Manchester, UK
P8	<b>Design and synthesis of new EF2K inhibitors for the treatment of TNBC and pancreatic cancers and their in vitro release studies from biocompatible natural polymeric particles</b> Ferah Comert Onder, Canakkale Onsekiz Mart University, Turkey
P9	<b>Method indicative of stability for determination of rifaximin and its degradation products by thin chromatographic</b> Ana Carolina Kogawa, Univ Estadual Paulista – UNESP, Brazil
P10	<b>Comparison of UV, IR, CE, HPLC and turbidimetric methods in the evaluation of rifaximin</b> Ana Carolina Kogawa, Univ Estadual Paulista – UNESP, Brazil

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| P11 | <b>Polyphenols loaded vaginal microbicide: A novel strategy for prevention of HIV transmission</b><br>Amit Mirani, Institute of Chemical Technology, India   |
| P12 | <b>Nanoparticle Engineering of atovaquone using nano-by-design (NbD) approach</b><br>Pratik S. Kakade, Institute of Chemical Technology, India   |
| P13 | <b>Analytical method development and validation of End-LAA for in vitro and in vivo studies</b><br>Cansel Kose Ozkan, Gulhane Education and Research Hospital, University of Health Sciences, Turkey |

Panel Discussion

## Day 3 July 01, 2017 (Saturday) @ Salon Sorolla 2

Moderator: M. Teresa Carvajal, Purdue University West Lafayette, USA

### Keynote Presentations

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|-------------|--|
| 09:00-09:40 | <b>Nanocomposite microparticles for the pulmonary delivery of bio-macromolecules</b><br>Gillian Hutcheon, Liverpool John Moores University, UK |
| 09:40-10:20 | <b>Development of nitroreductase/prodrug system for cancer therapy</b><br>Mehmet Ay, Canakkale Onsekiz Mart University, Turkey                 |
| 10:20-11:00 | <b>Why perform pharmaceutical analysis green and optimized?</b><br>Ana Carolina Kogawa, Univ Estadual Paulista - UNESP, Brazil                 |
| 11:00-11:20 | <b>Coffee Break @ Hall planta P</b>  |

Session on: Biodrugs, Biomolecules and Therapeutics | Pharmaceutical Research | Therapeutic Drug Carrier Systems

Session Chairs:

Gillian Hutcheon, Liverpool John Moores University, UK  
Ulo Langel, Stockholm University, Sweden

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|-------------|--|
| 11:20-11:40 | <b>Impact of drug crystal habit on drug--carrier surface interactions and consequent powder dispersion from dry powder inhalers</b><br>M. Teresa Carvajal, Purdue University West Lafayette, USA |
| 11:40-12:00 | <b>INN Darunavir. Patenting problem of active pharmaceutical substances</b><br>Mikhail Samuilovich Goizman, Drugs Technology LLC, Russia   |
| 12:00-12:20 | <b>Preclinical development of GMC1, a novel molecule targeting FKBP52 for the treatment of castration resistance prostate cancer</b><br>Huan Xie, Texas Southern University, USA                 |
| 12:20-12:40 | <b>Development of formulations for novel chemotherapeutic agents for Tuberculosis and HIV co-infection</b><br>Omonike A. Olaleye, Texas Southern University, USA                                 |
| 12:40-13:00 | <b>Steroid estrogen analogues as potential drugs with targeted action</b><br>Svetlana N. Morozkina, ITMO University, Russia  |
| 13:00-13:20 | <b>The bone-cartilage interface: A complex biological barrier with potential therapeutical targets</b><br>Elod Erno Nagy, University of Medicine and Pharmacy Targu-Mures, Romania               |
| 13:20-14:10 | <b>Lunch Break @ Restaurante Albufera</b>  |
| 14:10-14:30 | <b>Improvements of computational optimization of drug-target interactions</b><br>Csaba Hetenyi, University of Pecs, Hungary  |
| 14:30-14:50 | <b>Towards improved activity and stability of gene therapeutics</b><br>Kira Astakhova, University of Southern Denmark, Denmark   |

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14:50-15:10	<b>Smart lipid nanocarriers: Potential for intracellular targeting</b> Vandana B. Patravale, Institute of Chemical Technology, India
15:10-15:30	<b>Potentiation of cytotoxic action of the new cisplatin derivative by UV irradiation</b> Jitka Pracharova, Palacky University, Czech Republic
15:30-15:50	<b>Impact of gut microbiota-mediated bile acid metabolism on the solubilization capacity of bile salt micelles and drug biopharmaceutical properties</b> Elaine F. Enright, University College Cork, Ireland
15:50-16:10	<b>Development of intravenous form of rifapentine and its in vivo evaluation</b> Konstantin Ostrovskiy, Drugs Technology LLC, Russia
16:10-16:30	<b>Green technology approach for development of BCS Class II molecule nanoformulation</b> Sandip Gite, Institute of Chemical Technology, India
16:30-16:50	<b>Visualization and characterization of nanocarriers for dermal drug delivery using single molecule methods</b> Ulrike Alexiev, Freie Universitat Berlin, Germany
16:50-17:10	<b>Coffee Break @ Hall planta P</b>

\*\*\*\*Closing Ceremony\*\*\*\*

*We wish to meet you again at*

**PDDS-2018**

**July 16-18, 2018 | Rome, Italy**

# Program

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Questions? Contact +1 (702) 988-2320 or  
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