



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

# PHARMACEUTICS AND DRUG DELIVERY SYSTEMS

June 24-26, 2019 | Paris, France

*Theme: Addressing current challenges in the development and delivery  
of medicinal agents*

Holiday Inn Paris - Marne La Vallee  
2 boulevard du Levant, 93160 Noisy-le-grand  
Paris, France

## Day 1 June 24, 2019 (Monday) @ Londres Rome

08:00-08:40 Registrations

08:40-09:00 Introduction

### Keynote Presentations

- 09:00-09:30 **Title:** Novel developments in lipid-based multifunctional combination nanopreparations for multidrug resistant cancer  
Vladimir P. Torchilin, Northeastern University, USA
- 09:30-10:00 **Title:** Taking your active from the lab to scale-up formulation development of a topical delivery system  
Robert Houlden, Formulytica Pty. Ltd, Australia
- 10:00-10:30 **Title:** Government and industry response to the us opioid epidemic  
Robert P. Bianchi, Prescription Drug Research Center, USA
- 10:30-11:00 **Title:** The use of self-immolative polymers to control cellular delivery  
Georgina Kate Such, University of Melbourne, Australia
- 11:00-11:20 **Coffee Break**

### Oral Presentations

- Sessions on:** Novel Developments In Drug Delivery System | Formulation Technologies | Advanced Drug Delivery Systems | Drug Delivery Through BBB | Biodrugs, Biomolecules and Therapeutics
- 11:20-11:40 **Title:** Docetaxel-liposomes prepared by the dual centrifugation method: Effect of propylene glycol and lipid charge on liposomal characteristics  
Ann Mari Holsæter, The Arctic University of Norway, Norway
- 11:40-12:00 **Title:** Delivering type I interferon to dendritic cells empowers tumor eradication and immune combination treatments  
Jan Tavernier, Ghent University, Belgium
- 12:00-12:20 **Title:** Lipid and carbohydrate based delivery vesicles for gene therapeutics: Approaching difficult diseases  
Kira Astakhova, Technical University of Denmark, Denmark
- 12:20-12:40 **Title:** Blood-brain barrier physiology in Alzheimer's disease: LXR signaling pathway and ABC transporters as therapeutical targets  
Fabien Gosselet, Blood-brain barrier laboratory, Artois University, France

- 12:40-13:00 Title: Prototyping and evaluating a novel humanoid chewing robot for drug delivery using a medicated chewing gum  
Kazem Alemzadeh, University of Bristol, UK
- 13:00-13:20 Title: Multifunctionalized and targeted biocatalytic nanoreactor for combinatory treatment of ER+ breast cancer  
Rafael Vazquez-Duhalt, Universidad Nacional Autónoma de México, Mexico
- 13:20-14:10 **Lunch Break**
- 14:10-14:30 Title: New approach to study difference in NSAIDs enantiomer activity, including chiral inversion.  
Tatyana Viktorovna Leshina, Voevodsky Institute of Chemical Kinetics and Combustion SB RAS, Russia
- 14:30-14:50 Title: In situ delivery and production system of anti-cancer molecules with gene-engineered bifidobacterium  
Shun'ichiro Taniguchi, Shinshu University School of Medicine, Japan
- 14:50-15:10 Title: Influence of mucoadhesivity on the bioavailability of nanoparticulate drug delivery systems  
Ylenia Zambito, University of Pisa, Italy
- 15:10-15:30 Title: Systemic liver-targeting delivery of a novel DNA/RNA heteroduplex oligonucleotide via an enteral route  
Chie Watanabe, Josai University, Japan
- 15:30-15:50 Title: Physicochemical and biophysical study of mechanisms the drugs bioavailability enhancement with new multifunctional delivery systems  
Nikolay E. Polyakov, Voevodsky Institute of Chemical Kinetics and Combustion of Russian Academy of Science, Russia
- 15:50-16:10 Title: Designing ADME formulations with matching exposures to amorphous solid dosage forms  
Aditya Tatavarti, Merck Sharp & Dohme Inc, USA
- 16:10-16:30 **Coffee Break**
- 16:30-16:50 Title: Wound healing mats made of layer by layer coated nanoparticles and electrospun nanofibers  
Gulcin Arslan Azizoglu, Ege University, Turkey
- 16:50-17:10 Title: In vitro model of diclofenac sodium gel delivery through pig skin  
Enkelejda Goci, Aldent University, Albania
- 17:10-17:30 Title: Influence of formulation and freeze drying process variations on protein stability  
Paritosh Pande, IMA Life North America and University of Connecticut, USA

## Day 2 June 25, 2019 (Tuesday) @ Londres Rome

### Keynote Presentations

- 09:00-09:30 Title: Nanoparticle delivery of natural products for the treatment of lung cancer  
Gillian Hutcheon, Liverpool John Moores University, UK
- 09:30-10:00 Title: Synthesis and physicochemical analysis of multi-component phases in drug development  
Mino R. Caira, University of Cape Town, South Africa
- 10:00-10:30 Title: Preclinical validation of a cell penetratin and interfering peptide  
Angelita Rebollo, CIMI Paris, France

### Special Session

- 10:30-11:00 Title: Facile preparation and characterization of robust metal-free nitroxide-based magnetic mixed micelles as MRI-visible drug delivery carrier  
Rui Tamura, Kyoto University, Japan
- 11:00-11:20 **Coffee Break**

### Oral Presentations

Session on: Nanotechnology in Pharmaceuticals and Drug delivery systems | Pharmacovigilance and Drug Safety | Therapeutic Drug Carrier Systems | Cellular Targeting and Intracellular Delivery | Pharmaceutical Microbiology and Biotechnology | Vaccine design and drug delivery technology

- 11:20-11:40 Title: Nano- versus micro-particles for S-nitrosoglutathione formulation  
Marianne Parent, Université de Lorraine, France
- 11:40-12:00 Title: Pseudomonas aeruginosa type 3 secretion system mediated antigen delivery for cancer immunotherapy  
Toussaint Bertrand, University Grenoble Alpes, France
- 12:00-12:20 Title: Engineering novel selectivity into metalloantibodies germline-encoded precursor to the murine anti-S1P metalloantibody in E.coli and baculovirus-insect cell system  
Elinaz Farokhi, San Diego State University, USA
- 12:20-12:40 Title: Discovery of novel bacterial genes encoding the enzymes acting on modified uracil/uridine derivatives and their use for gene therapy in cancer treatment  
Jaunius Urbonavičius, Vilnius Gediminas Technical University, Lithuania
- 12:40-13:00 Title: Drug delivery to the skin: Nanostructures for the treatment of precancerous actinic keratosis  
Silvia Tampucci, University of Pisa, Italy
- 13:00-13:20 Title: Liposomes as valuable drug delivery systems for siRNA and Hsp90 inhibitors to target triple negative breast tumors  
Juliette Vergnaud-Gauduchon, Université Paris-Sud, France

13:20-14:10 **Lunch Break**

14:10-14:30 Title: A RNA producing DNA hydrogel as a platform for a high performance RNA interference system  
Nokyoung Park, Myongji University, South Korea

14:30-14:50 Title: A Nanomedicine approach in the treatment of arterial hypertension  
Haissam Abou Saleh, Qatar University, Qatar

14:50-15:10 Title: Release and activity of the broad spectrum antibiotic Rifampicin from biodegradable polymer PLGA  
Justine Fraser, The University of Strathclyde, UK

15:10-15:30 Title: Role of the optimal dynamic state and stabilized catalytic complex for rational design of pharmaceutical enzymes: A mutant streptokinase (Asn228Lys/Phe287Lys) with enhanced, fibrin-dependent activity- Computational assessments and experimental validations  
Farzin Roohvand, Pasteur Institute of Iran, Iran

15:30-15:50 Title: Pharmacovigilance: Aims, challenges and perspective  
Razan Ghattas Mhanna, Lebanese International University, Lebanon

15:50-16:10 Title: Original Synthesis of natural acetogenins, fattyacids and lembehynes as a potential drugs for treatment of cancer and neurodegenerative diseases  
Vladimir A. D'yakonov, Institute of Petrochemistry and Catalysis of RAS, Russia

16:10-16:30 **Coffee Break**

16:30-16:50 Title: The nuclear membrane as a barrier to the action of anthracycline chemotherapeutics  
Gulnihal Ozcan, Koc University Research Center for Translational Medicine, Turkey

16:50-17:10 Title: Global legal tools for pharmacovigilance and risk control  
Eliana Silva De Moraes, Brazilian Regulatory Affairs Society in Europe, France

17:10-17:30 Title: Self-propelled objects with high autonomy for transportation  
Satoshi Nakata, Hiroshima University, Japan

## Poster Presentations

P01 Title: HIV-1 integrase tetramers are the antiviral target of pyridine-based allosteric integrase inhibitors  
Mamuka Kvaratskhelia, University of Colorado School of Medicine, USA

P02 Title: Study of the capability of Chitosan-Glutathione nanoparticles to modulate redox state in human Chondrocytes  
Roberto Diaz-Torres, National University of Mexico, Mexico

P03 Title: The biomedical application of biogenic silver nanoparticles produced from *Cotyledon orbiculata*  
Samantha Meyer, Cape Peninsula University of Technology, South Africa

- P04 Title: Nano-amorphous abiraterone acetate formulation with improved bioavailability and eliminated food effect  
Tamás Jordán, NanGenex Inc, Hungary
- P05 Title: Dissolution study of drug release from biopolymer matrix tablets  
Kevin Matzick, University of Pardubice, Czech Republic
- P06 Title: TAA-induced liver damage in KLF10 knockout mice  
Azra Memon, Inha University, Republic of Korea
- P07 Title: Neuropeptide Y-based recombinant peptides improve bone loss in mice by regulating hematopoietic stem/progenitor cell mobilization  
Hee Kyung Jin, Kyungpook National University, Republic of Korea
- P08 Title: Antitumor effects of retargeted AAV2 virus on ovarian cancer in vivo  
Hyung Jun Ahn, Korea Institute of Science and Technology, South Korea
- P09 Title: Niosomal encapsulation of Curcumin: Characterization and its potential as a therapeutic intervention in asthma  
Dinesh Kumar Chellappan, International Medical University, Malaysia
- P10 Title: Calotropis gigantea extract induces apoptosis through extrinsic/intrinsic pathways and reactive oxygen species generation in A549 and NCI-H1299 non-small cell lung cancer cells  
Jiyon Lee, Konkuk University, Republic of Korea
- P11 Title: Kinetics of pentoxifylline release from hydrophilic, lipophilic and dual matrix tablets  
Barbora Slezáková, University of Pardubice, Czech Republic
- P12 Title: Development of rotigotine nanoparticles and its effect on haloperidol induced Parkinsonian symptoms in rats  
Subrat Kumar Bhattamisra, International Medical University, Malaysia
- P13 Title: Synthesis, evaluation and computational simulation of novel coumarin derivatives as potential acetylcholinesterase inhibitors  
Haeil Park, Kangwon National University, Republic of Korea
- P14 Title: Characterization and validation of tumor cell-selective penetrating peptides  
Angelita Rebollo, CIMI Paris, France
- P15 Title: Freshwater sapropel extract for use in medicine and pharmaceuticals  
Aneka Klavina, Rigas Stradiņš University, Latvia
- P16 Title: Fabrication and characterization of transdermal patch loaded with Ascorbic acid  
Ahlam Zaid Alkilani, Zarqa University, Jordan
- P17 Title: Nanoemulsion–laden organogels of lidocaine as lipid–based systems for topical delivery  
Rania Hamed, Al-Zaytoonah University of Jordan, Jordan



- P18 Title: Anti-cancer effect of Tuberatolide B in MDA-MB-231 cells through induction of ROS and inhibition of STAT3 pathway  
Areumi Park, Korea Institute of Ocean science & Technology, Republic of Korea
- P19 Title: Protective effect of Bis (3-bromo-4,5-dihydroxybenzyl) ether against LPS-induced inflammatory response in RAW 264.7 macrophages through ROS-mediated ERK signaling pathway  
Soo-Jin Heo, Korea Institute of Ocean science & Technology, Republic of Korea
- P20 Title: Saringosterol acetate suppressed hepatocellular carcinoma growth and metastasis in a zebrafish xenograft model  
Eun-A Kim, Korea Institute of Ocean science & Technology, Republic of Korea
- P21 Title: Molecular weight characterization of sodium carboxymethyl cellulose by advance polymer chromatography  
Ekaterina Sobich, AbbVie Deutschland GmbH & Co. KG R&D, Germany
- P22 Title: Strategies to increase the passage of large molecules through the blood brain barrier  
Charlotte Lombardi, Grenoble-Alpes University, France
- P23 Title: To be Announced  
Jae-sung Bae, Kyungpook National University, Republic of Korea

## Poster Slots Available

## Day 3 June 26, 2019 (Wednesday) @ Londres Rome

### Keynote Presentations

- 09:00-09:30 Title: Cell-penetrating peptides and delivery of oligonucleotides  
Ülo Langel, Stockholm University, Sweden
- 09:30-10:00 Title: Strategies to improve drug delivery to the lungs from dry powder inhalers  
El Hassane Larhrib, University of Huddersfield, UK
- 10:00-10:30 Title: Pharmaceutical applications of graphene-based nanomaterials in cancer theranostics  
Marlene Lúcio, University of Minho, Portugal
- 10:30-11:00 Title: Designing extracellular vesicles for bio-camouflaged drug delivery and cell-free regenerative medicine  
Amanda Silva Brun, Université Paris-Diderot, France
- 11:00-11:20 **Coffee Break**

## Oral Presentations

Session on: **Advances in Biotherapeutics-Drug Discovery and Development | Drug discovery and Screening | Pharmaceutical Analysis and Quality Assurance | Pharmaceutical Research & Development**

- 11:20-11:40 **Title: Antibody-guided discovery of potent small-molecule fusion inhibitors of influenza virus**  
Maria van Dongen, The Janssen Pharmaceutical Companies of Johnson & Johnson, Belgium
- 11:40-12:00 **Title: Targeting liver function to circumvent neuronal and cardiac dysfunctions linked to hyperhomocysteinemia**  
Nathalie Janel, University Paris Diderot, France
- 12:00-12:20 **Title: Detection of "Hidden" drug resistance by the EZMTT assay**  
Benfang (Bennie) H. Ruan, Zhejiang University of Technology, China
- 12:20-12:40 **Title: New indications for FDA-approved drugs: Selective inhibition of the growth of Helicobacter pylori by covalent allosteric regulation of urease**  
Fang Wu, Shanghai Jiao Tong University, China
- 12:40-13:00 **Title: Freshwater Sapropel as raw material in medicine and pharmaceutical production**  
Agris Auce, Rigas Stradins University, Latvia
- 13:00-13:20 **Title: P-selectin targeted nanocarriers are efficient drug delivery systems to activated endothelium**  
Manuela Calin, Institute of Cellular Biology and Pathology "N. Simionescu", Romania
- 13:20-14:10 **Lunch Break**
- 14:10-14:30 **Title: Development of novel leads for triple-negative breast cancer immunotherapy**  
Jing Yu, Shanghai Jiao Tong University, China
- 14:30-14:50 **Title: Valproic acid encapsulated biodegradable microneedles for treatment of androgenetic alopecia**  
Shayan Fakhraei Lahiji, Yonsei University, South Korea
- 14:50-15:10 **Title: Novel small molecules for PPARs modulation and their potential use for treatment of metabolic disorders**  
Antonio Laghezza, Università degli Studi di Bari "Aldo Moro", Italy
- 15:10-15:30 **Title: Caloric restriction and longevity**  
Bartolome Ribas Ozonias, Royal National Academy of Pharmacy, Institute of Spain. Madrid, Spain



- 15:30-15:50 Title: Encapsulation of silver nanoparticle in DPPC based liposome suppresses ROS, induced inflammation and enhance nanoparticle cytotoxicity  
Azeez Yusuf, Technical University Dublin, Ireland
- 15:50-16:10 Title: Development of substances with biological and pharmacological activity based on structural nucleus hybrids from phytochemical compounds like secondary metabolites  
José Eduardo Cuéllar, Universidad Nacional de Colombia, Colombia
- 16:10-16:30 **Coffee Break**
- 16:30-16:50 Title: Chimeric antigen receptors; a biodrugs as cancer therapeutic agent  
Preeti Sharma, Satosh Medical College and Hospital, Ghaziabad, India
- 16:50-17:10 Title: To be Announced  
Yazen Alnouti, University of Nebraska Medical Center, USA

## Speaker Slots Available