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Scientific Program

10th International Conference & Exhibition on

Pharmaceutics & Novel Drug Delivery Systems



Venue:
Doubletree by Hilton Hotel London Ealing
2-8 Hanger Lane, Ealing, W5 3HN
United Kingdom

March 13-15, 2017
London, UK

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Keynote Speakers



Title: What properties should nanopreparations possess to become effective anticancer medicines?

Vladimir Torchilin

Director of Center for Pharmaceutical Biotechnology and Nanomedicine
Editor-in-Chief for Drug Delivery, Current Drug Discovery Technologies & OpenNano Journals
Northeastern University, USA



Title: Oral delivery of biologics – Back to the roots

Andreas Bernkop-Schnürch

Professor and Head of Pharmaceutical Technology
CSO at ThioMatrix
University of Innsbruck, Austria



Title: Polyvalent multifunctional phage-display toolkits for development of targeted self-navigating drug delivery vehicles

Valery A. Petrenko

Auburn University
USA



Title: Overcoming cellular barriers for drug delivery: Opening endocytic gates and pathways for intracellular targetting

Arwyn Tomos Jones

Professor of Membrane Traffic and Drug Delivery
Editorial Board of the Journal of Controlled Release and Membranes
Cardiff School of Pharmacy and Pharmaceutical Sciences
Cardiff University, UK



Title: Quantifying the effectiveness of drug delivery systems *in vivo*

Steve Hood

Director, Bioimaging and D@T & GSK Fellow
In Vitro/In Vivo Translation
RD Platform Technology & Science
UK



Title: *In-situ* forming gel devices as local depot therapeutic for rheumatoide arthritis

Olivia Merkel

Ludwig-Maximilians-Universität München
Germany



Title: Computational discovery and experimental confirmation of TLR9 receptor antagonist leads

Amiram Goldblum

Molecular Modeling and Drug Design, Institute for Drug Research
The Hebrew University of Jerusalem
Israel



Title: Age-related sight loss: novel drug delivery strategies to the anterior and posterior segments of the eye

Raid Alany

Editor-in-Chief Pharmaceutical Development and Technology
Head of School of Life Sciences Pharmacy and Chemistry
Kingston University London, UK
Honorary Professor of Pharmacy, The University of Auckland, Auckland, New Zealand



Title: Lipid-based pharmaceutical formulations for patient-centric product development

Sharareh Salar-Behzadi

Research Center Pharmaceutical Engineering GmbH
Austria

Day 1 | March 13, 2017 | Monday

08:00-09:00 Registrations

Byron Suite

09:00-09:25 Opening Ceremony

Keynote Forum

09:25-09:30 Introduction

09:30-10:10 Title: What properties should nanopreparations possess to become effective anticancer medicines?
Vladimir Torchilin, Northeastern University, USA

10:10-10:50 Title: Oral delivery of biologics- back to the roots
Andreas Bernkop-Schnürch, University of Innsbruck, Austria

Group Photo

Networking and Refreshments 10:50-11:10

11:10-11:50 Title: Polyvalent multifunctional phage-display toolkits for development of targeted self-navigating drug delivery vehicles
Valery A Petrenko, Auburn University, USA

11:50-12:30 Title: Computational discovery and experimental confirmation of TLR9 receptor antagonist leads
Amiram Goldblum, The Hebrew University of Jerusalem, Israel

Sessions:
Smart Drug Delivery Systems | Vaccine Drug Delivery Systems | Routes of Drug Delivery

Session Chair: **Vladimir Torchilin**, Northeastern University, USA
Session Chair: **Andreas Bernkop-Schnürch**, University of Innsbruck, Austria

12:30-12:50 Title: Microneedle: The future of pharmaceutical and cosmeceutical delivery systems
Hyungil Jung, Yonsei University, Republic of South Korea

12:50-13:10 Title: TBA
Steve Rannard, University of Liverpool, UK

Lunch Break 13:10-14:00

14:00-14:20 Title: Polymeric nanoparticles for therapeutic siRNA delivery: Analysis of tissue-penetration and biological activities in tumor tissue slice cultures and *in vivo* xenograft models
Achim Aigner, Leipzig University, Germany

14:20-14:40 Title: Drug delivery across skin barrier: Investigation on different biocompatible thermoresponsive soft nanocarriers
Fiorenza Rancan, Medical University of Berlin, Germany

14:40-15:00 Title: Pulmonary delivery of miRNA loaded nanocarriers for potential treatment of chronice obstructive pulmonary disease
Imran Saleem, Liverpool John Moores University, UK

15:00-15:20 Title: Investigation on nano-sized drug delivery systems for ocular application
Patrizia Chetoni, University of Pisa, Italy

15:20-15:40 Title: Tumour regression after intravenous administration of novel tumour-targeted nanomedicines
Christine Dufès, University of Strathclyde, UK

Networking and Refreshments 15:40-16:00

Sessions:
Nanotechnology in Drug Delivery | Pharmaceutical Nanotechnology | Biomaterials in Drug Delivery

Session Chair: **Vladimir Torchilin,** Northeastern University, USA
Session Chair: **Amiram Goldblum**, The Hebrew University of Jerusalem, Israel

16:00-16:20 Title: Biomaterials a pathway to overcome biomembranes
Flavia Laffleur, University of Innsbruck, Austria

16:20-16:40 Title: Nanoprecipitation for delivery of insulin
António José Ribeiro, University of Coimbra, Portugal

16:40-17:00 Title: Metronomic treatment of breast cancer with Doxorubicin-loaded ferritin nanocages prevents chemoresistance and cardiotoxicity in comparison to liposomal Doxorubicin
Serena Mazzucchelli, University of Milan, Italy

17:00-17:20 Title: An early developmental vertebrate model to assess nanomaterial safety
Victoria Sherwood, University of Dundee, UK

17:20-17:40 Title: Polymeric nanofibers for controlled release in hernia repair
Dimitrios A Lamprou, University of Kent, UK

17:40-18:00 Title: Multi-component orchestrated delivery modules for personalized healthcare using SLA 3D printing
Reno A L Leon, Structo Pte. Ltd., Singapore

Panel Discussion

Day 1 Concludes

Day 2 | March 14, 2017 | Tuesday

Byron Suite

Keynote Forum

09:30-10:10	Title: Overcoming cellular barriers for drug delivery: Opening endocytic gates and pathways for intracellular targetting **Arwyn T Jones,** Cardiff University, UK
10:10-10:50	Title: Quantifying the effectiveness of drug delivery systems *in vivo* **Steve Hood**, GSK, UK

Networking and Refreshments 10:50-11:10

11:10-11:50	Title: Age related sight loss: novel drug delivery strategies to the anterior and posterior segements of the eye **Raid Alany**, Kingston University, UK
11:50-12:30	Title: Lipid-based pharmaceutical formulations for patient-centric product development **Sharareh Salar-Behzadi**, Research Center Pharmaceutical Engineering GmbH, Austria

Sessions:
Peptides and Protein Drug Delivery | Drug Targeting and Design | Nanoparticulate Drug Delivery Systems

Session Chair: **Valery A Petrenko**, Auburn University, USA
Session Chair: **Arwyn T Jones,** Cardiff University, UK

12:30-12:50	Title: Bacterial nanocellulose as controlled drug delivery system in skin applications **Dagmar Fischer**, Friedrich-Schiller-University, Germany
12:50-13:10	Title: Nanoparticles-in-vaginal films for combined delivery of anti-HIV microbicide drugs **Bruno Sarmento,** University of Porto, Portugal

Lunch Break 13:10-13:55

13:55-14:15	Title: Therapeutic potential against metastatic melanoma of a copper-based aquaporin inhibitor nanoformulated **Satyanarayana Somavarapu,** UCL School of Pharmacy, UK
14:15-14:35	Title: Dry powder inhalation of Pneumococcal protein-based nanocarrier vaccine **Imran Saleem,** Liverpool John Moores University, UK
14:35-14:55	Title: Double-targeting of glioma in mice using LRP1-targeting carbon nano-needles **Khuloud Al Jamal,** King's College London, UK
14:55-15:15	Title: Metrology in pharmaceutical manufacturing **Dimitrios A Lamprou,** University of Kent, UK
15:15-15:35	Title: Targeted drug delivery to enhance cancer therapy and reduce its side effects **Wafa T Al-Jamal,** University of East Anglia, UK
15:35-15:55	Title: TBA **Murtaza Tambuwala,** Ulster University, UK
15:55-16:15	Title: PLGA nanoparticles entrapping Amikacin and Moxifloxacin as a potential host-directed agent therapy for multidrug resistant tuberculosis **Sharif Abdelghany,** University of Jordan, Jordan

Networking and Refreshments 16:15-16:35

Parellel Sessions
Poster Presentations @ 16:35-17:35
Exhibitions/Networking/B2B Meetings

Poster Judges: **Raid Alany**, Kingston University, UK
Imran Saleem, Liverpool John Moores University, UK
Khuloud Al Jamal, King's College London, UK

PNDDS01	Title: ChonylationTM – a new drug delivery technology for improving the therapeutic efficacy of proteins and peptides utilizing naturally-occurring sugar polymer "chondroitin (CH)" as an alternative to polyethylene glycol (PEG) **Yoshihiro TAKATSU,** Seikagaku Corporation, Japan
PNDDS02	Title: Solvent-free lipophilic novel drug delivery system via dissolving microneedles **Shayan F Lahiji,** Yonsei University, Republic of South Korea
PNDDS03	Title: Characterisation of complex polysaccharide with potent anticancer activity and mechanism of action on triple negative breast cancer **Chrow Khurshid,** University of Salford Manchester, UK
PNDDS04	Title: Investigations into the impact of oleic acid purity on human skin penetration by Terbinafine hydrochloride using Maldi-Ms imaging **Stephen Rumbelow,** The University of Sheffield, USA
PNDDS05	Title: Developing novel biased ligands of protease-activated receptor 2 in colorectal cancer cells **Yuhong Jiang,** University of Queensland, Australia
PNDDS06	Title: Targeting liposomal doxorubicin to tumour tissues using a novel peptide **Mohammed Aldughaim,** The University of Sheffield, UK
PNDDS07	Title: Ultrasound–assisted compression of paracetamol **Abdolati Alwati,** University of Bradford, UK
PNDDS08	Title: Transcutaneous immunization via rapidly dissolvable microneedles protects against hand-foot-and-mouth disease caused by enterovirus 71 **Zhuangzhi Zhu,** China State Institute of Pharmaceutical Industry, China
PNDDS09	Title: Preparation and evaluation of Emamectin benzoate solid microemulsion **Bo Cui,** Chinese Academy of Agricultural Sciences, China

PNDDS10	Title: Resistance monitoring to beta-cypermethrin in spiraling whiteny **Changjiao Sun,** Chinese Academy of Agricultural Sciences, China
PNDDS11	Title: Agrochemical smart nano-delivery systems for improved efficiency and safety **Yan Wang,** Chinese Academy of Agricultural Sciences, China
PNDDS12	Title: Morphology, structure and function characterization of pei modified magnetic nanoparticles gene delivery system **Xiang Zhao,** Chinese Academy of Agricultural Sciences, China
PNDDS13	Title: Bioresorbable structures loaded with ginger and hot pepper extracts as possible application in some cardiovascular diseases **Melania Florina Munteanu,** Vasile Goldis Western University Arad, Romania
PNDDS14	Title: Enhancement of dissolution of atorvastatin through preparation of solid dispersions using supercritical fluid technology **Rana Obaidat,** Jordan University of Science and Technology, Jordan
PNDDS15	Title: Novel self-assembled liquid crystalline nanoparticles for transdermal delivery of progesterone: development, quality by design, *in-vitro* optimization and *ex-vivo* permeation studies **Salma M Mohyeldin,** Alexandria University, Egypt
PNDDS16	Title: Organogel nanoparticles as delivery system for lipophilic drugs **Sophie Franceschi,** Université Paul Sabatier, France
PNDDS17	Title: Optimization of quercetin Oil-in-Water (O/W) nanoemulsion aerosols for pulmonary delivery **Mohd Basyaruddin Abdul Rahman,** Universiti Putra Malaysia, Malaysia
PNDDS18	Title: Modified release studies of the new antitubercular compound, 1,1'-[4,4'-[tricyclo[3.3.1.13,7]decane-2,2-diyl]bis(phenoxyethyl] dipyrrolidine, bis-hydrochloride from solid pharmaceutical formulations **Angeliki Siamidi,** The University of Sheffield, Greece
PNDDS19	Slots Available
PNDDS20	Slots Available
PNDDS21	Slots Available
PNDDS22	Slots Available
PNDDS23	Slots Available
PNDDS24	Slots Available
PNDDS25	Slots Available

Panel Discussion

Day 2 Concludes

Day 3 | March 15, 2017 | Wednesday

Springfield

Keynote Forum

09:30-10:10	Title: *In-situ* forming gel devices as local depot therapeutic for rheumatoide arthritis **Olivia Merkel**, Ludwig-Maximilians-Universität München, Germany

Sessions:
Nanotechnology in Drug Delivery | Pharmaceutical Nanotechnology | Biomaterials in Drug Delivery

Session Chair: **Olivia Merkel**, Ludwig-Maximilians-Universität München, Germany
Session Chair: **Imran Saleem**, Liverpool John Moores University, UK

Young Researchers Forum

10:10-10:25	Title: Transparent Ciprofloxacin-polyvinylpyrrolidone antibiotic films and nanofiber mats as potential skin and wound care dressings **Marco Contardi**, Istituto Italiano di Tecnologia, Italy

Networking and Refreshments 10:25-10:40

10:40-11:00	Title: A novel doxorubicin loaded folicacid conjugated PAMAM modified with borneol, a nature dual-functional product to freducing PAMAM toxicity and boosting BBB penetration **Fanzhu Li**, Zhejiang Chinese Medical University, China
11:00-11:20	Title: Nanoparticles for oral delivery of Insulin: Facts and safety concerns **António José Ribeiro**, University of Coimbra, Portugal
11:20-11:40	Title: Therapeutic potential against metastatic melanoma of a copper-based aquaporin inhibitor nanoformulated **Maria Manuela Gasper**, University of Lisboa, Portugal
11:40-12:00	Title: Cm-p5: An antifungal mollusc-derived peptide conjugated with citric acid-modified manganese-ferrite nanoparticles with enhanced activity against Candida albicans in vitro **Anselmo J Otero-Gonzalez**, Havana University, Cuba

12:00-12:20	Title: Stability of epigallocatechin gallate in green tea extract cream with variation concentration of antioxidant vitamin C 1% and vitamin E 1% **Fiqrirozi**, Ahmad Dahlan University, Indonesia
12:20-12:40	Title: Thiolated pectin conatining hydrogels for controlled drug delivery of Citrizine hydrochloride with it's *in-vitro* studies **Muhammad Hanif**, Bahauddin Zakariya University, Pakistan
12:40-13:00	Title: Hypoxia-responsive methoxy poly (ethylene glycol)-block-poly (glutamic acid)-graft-6-(2-nitroimidazole) hexyl amine nanoparticles for Doxorubicin drug delivery **Zaheer Ahmad,** Chinese Academy of Sciences, China
Lunch Break 13:00-14:00	
14:00-14:20	Title: Local Infiltration Anaesthia (LIA) and novel technique for effective pain relief following elective primary hip and knee replacement-innovative study **Mohammad Salhab**, Chapel Allerton Hospital, UK
14:20-14:40	Title: Various potentials of isolated bael fruit gum in drotaverine hydrochloride tablets **Kuldeep H Ramteke**, Modern College of Pharmacy, India
14:40-15:00	Title: Anti-inflammatory activity of the volatile oil of the pulp of Raphia australis **Muyiwa Arisekola**, Walter Sisulu University, South Africa
15:00-15:20	Title: Asenapine Maleate loaded solid lipid nanoparticles for oral delivery **Pranav Shah**, Uka Tarsadia University, India
15:20-15:40	Title: In-vivo and In-vitro characterization and release potential of 1- B-arabinofuranosylcytosine from casein coated superparamagnetic nanostructure for magnetic drug targeting **Anamika Singh**, Govt. Model Science College, India
15:40-16:00	Title: Methalonic extract of the exudate of *Aloe otallensis* and its effect on *Leishmania eathiopica* Parasite and its phytochemical screening **Tesfaye Zerihun,** Addis Ababa University, Ethiopia
Networking and Refreshments 16:00-16:20	
16:20-16:40	Speaker Slot available
16:40-17:00	Speaker Slot available
17:00-17:20	Speaker Slot available
17:20-17:40	Speaker Slot available
Award Ceremony	
Conference Concludes	

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