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Scientific Program

10th International Conference
& Exhibition on

Pharmaceutics & Novel Drug Delivery Systems

March 13-15, 2017
London, UK



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

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

Olivia Merkel

Ludwig-Maximilians-Universität München
Germany





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





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

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: Computational discovery and experimental confirmation of TLR9 receptor antagonist leads**
Amiram Goldblum, The Hebrew University of Jerusalem, Israel

11:50-12:30 **Title: Overcoming cellular barriers for drug delivery: Opening endocytic gates and pathways for intracellular targetting**
Arwyn T Jones, Cardiff University, UK

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: Nanoparticles-in-vaginal films for combined delivery of anti-HIV microbicide drugs**
Bruno Sarmento, University of Porto, Portugal

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: Arwyn T Jones, Cardiff University, UK
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: 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

16:40-17:00 **Title: Dry powder inhalation of Pneumococcal protein-based nanocarrier vaccine**
Imran Saleem, Liverpool John Moores University, UK

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: Targeted drug delivery to enhance cancer therapy and reduce its side effects** **Wafa T Al-Jamal,** University of East Anglia, UK

Panel Discussion

Day 1 Concludes

Day 2 | March 14, 2017 | Tuesday

Byron Suite

Keynote Forum

09:30-10:10	**Title: Polyvalent multifunctional phage-display toolkits for development of targeted self-navigating drug delivery vehicles** **Valery A Petrenko,** Auburn University, USA
10:10-10:50	**Title: Lipid-based pharmaceutical formulations for patient-centric product development** **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: Raid Alany, Kingston 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: Therapeutic potential against metastatic melanoma of a copper-based aquaporin inhibitor nanoformulated** **Satyanarayana Somavarapu,** UCL School of Pharmacy, UK

Lunch Break 13:10-13:55

13:55-14:15	**Title: Double-targeting of glioma in mice using LRP1-targeting carbon nano-needles** **Khuloud Al Jamal,** King's College London, UK
14:15-14:35	**Title: Nanoprecipitation for delivery of Insulin** **António José Ribeiro,** University of Coimbra, Portugal
14:35-14:55	**Title: Metrology in pharmaceutical manufacturing** **Dimitrios A Lamprou,** University of Kent, UK
14:55-15:15	**Title: Multi-component orchestrated delivery modules for personalized healthcare using SLA 3D printing** **Reno A L Leon,** Structo Pte. Ltd., Singapore
15:15-15:35	**Title: PLGA nanoparticles entrapping Amikacin and Moxifloxacin as a potential host-directed agent therapy for multidrug resistant tuberculosis** **Sharif Abdelghany,** University of Jordan, Jordan
15:35-15:55	**Title: Facile synthesis of L-Cysteine CdTe core shell system and its antioxidants properties** **Daramola A Olamide,** Walter Sisulu University, South Africa
15:55-16:15	**Speaker Slot available**

Networking and Refreshments 16:15-16:35

Poster Presentations @ 16:35-17:35

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

PNDDS01 Title: Chonylation™ – 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: 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, National and Kapodistrian University of Athens, Greece

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: Chlorpheniramine maleate controlled release matrix tablets prepared by direct compression: Formulation, *in vitro* characterization and stability study

Mohamed Haider, University of Sharjah, UAE

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: Curcumin nano formulation for controlled delivery and enhanced antioxidant activity

Lalduhsanga Pachuau, Assam University, India

PNDDS19 Title: Formulation and evaluation of floating pulsatile drug delivery system of Lafutidine

Shailesh T Prajapati, Shri Sarvajanik Pharmacy College, India

PNDDS20 Title: Okra-thioglycolic acid conjugate: synthesis, characterization and evaluation as mucoadhesive polymer

Raghavendra Naveen, Annamacharya College of Pharmacy, India

PNDDS21 Title: Nasal gel formulation a boon in treatment of emesis

Ramanpreet Walia, Spectrum Institute of Pharmaceutical Sciences and Research, India

PNDDS22 Title: Intravaginal delivery of Polyphenon 60 and curcumin nanoemulsion gel

Atinderpal Kaur, Jaypee Institute of Information Technology, India

PNDDS23	**Title: *In vitro, ex vivo, in vivo, in situ* cell line and time dependent degradation studies of Topotecan nanoparticles: Zinc ions enhancing entrapment of Topotecan** **Tahir Khuroo,** Jamia Hamdard University, India
PNDDS24	**Title: Antioxidant and anti-ulcerogenic activity of wild *Punica granatum* ethanol seed extract** **Tanvir Singh,** Punjab Technical University, India
PNDDS25	**Title: Nano drug delivery systems: A novel scope to ayurvedic medicines** **Aakriti Grover,** Narsee Monjee Institute of Management Studies, India
PNDDS26	**Title: Application of Catechin hydrate encapsulated nanocapsules in combating acute fluoride induced neurological degeneration in rat** **Arpita Samanta,** Vidyasagar University, India
PNDDS27	**Title: Antifungal activity of essential oil from *Artemisia campestris L* on fungal species development** **Achraf Khaldi,** University of Tahri Mohamed Bechar, Algeria
PNDDS28	**Title: Pharmacy and nano science of some natural drugs from Iraqi medical plants** **Ali Awad Hamoud Al-jeboory,** Uruk Private University, Iraq

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

Young Researchers Forum

Session Chair: Olivia Merkel, Ludwig-Maximilians-Universität München, Germany
Session Chair: Satyanarayana Somavarapu, UCL School of Pharmacy, UK

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
10:25-10:40	**Title: TBA** **Ton van Heugten,** Tiofarma B.V., Netherlands

Networking and Refreshments 10:40-11:00

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

11:00-11:20	**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
11:20-11:40	**Title: Nanoparticles for oral delivery of Insulin: Facts and safety concerns** **António José Ribeiro,** University of Coimbra, Portugal
11:40-12:00	**Title: Therapeutic potential against metastatic melanoma of a copper-based aquaporin inhibitor nanoformulated** **Maria Manuela Gasper,** University of Lisboa, Portugal
12:00-12:20	**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
12:20-12:40	**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
12:40-13:00	**Title: Thiolated pectin conatining hydrogels for controlled drug delivery of Citrizine hydrochloride with its *in-vitro* studies** **Muhammad Hanif,** Bahauddin Zakariya University, Pakistan

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: 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
14:40-15:00	**Title: Various potentials of isolated bael fruit gum in drotaverine hydrochloride tablets** **Kuldeep H Ramteke,** Modern College of Pharmacy, India
15:00-15:20	**Title: Anti-inflammatory activity of the volatile oil of the pulp of Raphia australis** **Muyiwa Arisekola,** Walter Sisulu University, South Africa
15:20-15:40	**Title: Asenapine Maleate loaded solid lipid nanoparticles for oral delivery** **Pranav Shah,** Uka Tarsadia University, India
15:40-16:00	**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
16:00-16:20	**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 16:20-16:40
16:40-17:00	**Title: Hot melt extrusion an emerging drug delivery technology** **Rashid Mahmood,** Surge Laboratories Private Limited, Pakistan
17:00-17:20	**Title: Genetic polymorphisms of CYP3A4*1B of cervical cancer patients in Bangladeshi population, Bangladesh** **Abdullah Shamim,** Khulna University, Bangladesh
17:20-17:40	**Title: Phytochemical screening of the exudate of Aloe otallensis and its effect on Leishmania donovani Parasite** **Tesfaye Zerihun,** Addis Ababa University, Ethiopia
17:40-18:00	**Title: Vancomycin loaded superparamagnetic $MnFe_2O_4$ nanoparticles coated with PEGylated chitosan to enhance antibacterial activity** **Akbar Esmaeili,** Islamic Azad University, Iran
	B2B Meetings
	Award Ceremony

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