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

Sharareh Salar-Behzadi

Research Center Pharmaceutical Engineering GmbH
Austria

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: Bacterial nanocellulose as controlled drug delivery system in skin applications

Dagmar Fischer

Friedrich-Schiller University
Germany

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 @ Foyer

11:10-11:50 Title: Quantifying the effectiveness of drug delivery systems *in vivo*
Steve Hood, GlaxoSmithKline (GSK), UK

11:50-12:30 Title: New drug candidates for liposomal delivery identified by computer modeling of liposomes' remote loading and leakage
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 Korea

12:50-13:10 Title: Solid drug nanoparticles as oral and long acting parenteral drug delivery for infectious diseases
Steve Rannard, University of Liverpool, UK

Lunch Break 13:10-14:00 @ W5 Grill Restaurant

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, Charité Medical University of Berlin, Germany

14:40-15:00 Title: Investigation on nano-sized drug delivery systems for ocular application
Patrizia Chetoni, University of Pisa, Italy

15:00-15:20 Title: Application of simultaneous dissolution-absorption apparatus for screening formulations before bioequivalence studies
Balint Sinko, Pion Inc., USA

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 @ Foyer

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: Age related sight loss: Novel drug delivery strategies to the anterior and posterior segements of the eye **Raid Alany,** Kingston University, UK

Networking and Refreshments 10:50-11:10 @ Foyer

11:10-11:50	Title: Lipid-based pharmaceutical formulations for patient-centric product development **Sharareh Salar-Behzadi,** Research Center Pharmaceutical Engineering GmbH, Austria
11:50-12:30	Title: Bacterial nanocellulose as controlled drug delivery system in skin applications **Dagmar Fischer,** Friedrich-Schiller University, Germany

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

Session Chair: **Raid Alany,** Kingston University, UK
Session Chair: **Arwyn T Jones,** Cardiff University, UK

12:30-12:50	Title: Nanoparticles-in-vaginal films for combined delivery of anti-HIV microbicide drugs **Bruno Sarmento,** University of Porto, Portugal
12:50-13:10	Title: Dry powder inhalation of Pneumococcal protein-based nanocarrier vaccine **Imran Saleem,** Liverpool John Moores University, UK

Lunch Break 13:10-14:00 @ W5 Grill Restaurant

14:00-14:20	Title: Targeting active bowel inflammation foci by MAdCAM-1-specific nanoparticles **Marta Truffi,** University of Milan, Italy
14:20-14:40	Title: Formulation of Inhaled phytochemicals **Satyanarayana Somavarapu,** UCL School of Pharmacy, UK
14:40-15:00	Title: Carbon nanotubes uptake in brain after intravenous injection in mice **Khuloud Al Jamal,** King's College London, UK
15:00-15:20	Title: Metrology in pharmaceutical manufacturing **Dimitrios A Lamprou,** University of Kent, UK
15:20-15:40	Title: Targeted drug delivery to enhance cancer therapy and reduce its side effects **Wafa T Al-Jamal,** University of East Anglia, UK
15:40-16:00	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 16:00-16:20 @ Foyer

Parellel Sessions
Poster Presentations @ 16:00-18:00
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: 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 Korea
PNDDS03	Title: Novel therapeutic approaches of sulphated glycan isolated from marine organism (whelk) on multiple cancer cell lines including TNBC and characterization of unique biological activity of the extracted compounds on malaria **Chrow Khurshid,** University of Salford, UK
PNDDS04	Title: Investigations into the impact of oleic acid purity on human skin penetration by Terbinafine hydrochloride using Maldi-MS imaging **Stephen Rumbelow,** Croda Inc., USA
PNDDS05	Title: Developing novel biased ligands of protease-activated receptor 2 in colorectal cancer cells **Yuhong Jiang,** University of Queensland, Australia
PNDDS06	Title: Steroid-harboring nanoparticles provide anti-inflammatory response with less adverse effects **Krisztian Kvell,** University of Pecs, Hungary
PNDDS07	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
PNDDS08	Title: Preparation and evaluation of Emamectin Benzoate solid microemulsion **Bo Cui,** Chinese Academy of Agricultural Sciences, China
PNDDS09	Title: Resistance monitoring to beta-Cypermethrin in spiraling whiteny **Changjiao Sun,** Chinese Academy of Agricultural Sciences, China

PNDDS10	Title: Agrochemical smart nano-delivery systems for improved efficiency and safety **Yan Wang,** Chinese Academy of Agricultural Sciences, China
PNDDS11	Title: Morphology, structure and function characterization of pei modified magnetic nanoparticles gene delivery system **Xiang Zhao,** Chinese Academy of Agricultural Sciences, China
PNDDS12	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
PNDDS13	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
PNDDS14	Title: Ultrasound–assisted compression of Paracetamol **Abdolati Alwati,** University of Bradford, UK
PNDDS15	Title: An anti-colitic mutual colon-specific prodrug of 5-aminosalicylic acid : Procainamide conjugated to 5-aminosalicylic acid via an azo bond **Wooseong Kim,** Pusan National University, Republic of Korea
PNDDS16	Title: Colon-specific Celecoxib delivery: a potential strategy for repositioning the selective COX-2 inhibitor as an anti-colitic agent **Seongkeun Jeong,** Pusan National University, Republic of Korea
PNDDS17	Title: Conjugation of with Dextran is a potential strategy to control colonic distribution of the drugs susceptible to metabolism by colonic microbes **Dohoon Kim,** Pusan National University, Republic of Korea
PNDDS18	Title: An anti-colitic mutual colon-specific prodrug of 5-aminosalicylic acid II: Benzocaine conjugated to dextran via a 5-aminosalicylic acid linker **Yejin Yang,** Pusan National University, Republic of Korea
PNDDS19	Title: Poly (ethylene glycol) bisphosphonate nanoparticles for diagnosis and therapy of primary and metastatic bone cancer **Igor Grinberg,** Bar-Ilan University, Israel
PNDDS20	Title: Targeting liposomal Doxorubicin to tumour tissues using a novel peptide **Mohammed Aldughaim,** The University of Sheffield, UK
PNDDS21	Title: Organogel nanoparticles as delivery system for lipophilic drugs **Sophie Franceschi,** Université Paul Sabatier, France
PNDDS22	Title: Dynamic Vapour Sorption – A versatile technique for pharmaceutical materials characterization **Nachal Devi Subramanian,** Surface Measurement Systems Ltd., UK
PNDDS23	Title: Exploitation of hydrazone bond to deliver Doxorubicin **Azzurra Agostini,** Polytechnic University of Milan, Italy
PNDDS24	Title: Fluorescent polymer nanoparticles loaded with a metal organic drug mimic molecule to study the biodistribution *in vivo* of both the carrier and the active principle via a combination of fluorimetry and ICP-MS **Mattia Sponchioni,** Polytechnic University of Milan, Italy
PNDDS25	Title: Innovative strategies for enhancing topical drug delivery **Renata F V Lopez,** University of São Paulo, Brazil
PNDDS26	Title: The characterisation of Methadone hydrochloride crystals using confocal microscope with Rhodamine staining **Noor Al-Hasani,** King's College London, UK

Group Photo (Poster Presentations)

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

10:10-10:30	Title: Nanoparticles for oral delivery of Insulin: Facts and safety concerns **António José Ribeiro,** University of Coimbra, Portugal
10:30-10:50	Title: Therapeutic potential against metastatic melanoma of a copper-based aquaporin inhibitor nanoformulated **Maria Manuela Gasper,** University of Lisboa, Portugal
10:50-11:10	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

Networking and Refreshments 11:10-11:30 @ Foyer

11:30-11:50	Title: Asenapine Maleate loaded solid lipid nanoparticles for oral delivery **Pranav Shah,** Uka Tarsadia University, India
11:50-12:10	Title: Thiolated pectin conatining hydrogels for controlled drug delivery of Citrizine hydrochloride with its *in-vitro* studies **Muhammad Hanif,** Bahauddin Zakariya University, Pakistan

12:10-12:30	Title: A novel Doxorubicin loaded folic acid 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
12:30-12:50	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
	Young Researchers Forum
12:50-13:05	Title: Transparent Ciprofloxacin-polyvinylpyrrolidone antibiotic films and nanofiber mats as potential skin and wound care dressings **Marco Contardi,** Italian Institute of Technology, Italy
13:05-13:20	Title: Development of cationic Ag_2S NIR emitting QD's as new generation of theranostic nanoparticles **Fatma Demir Duman,** Koc University, Turkey
	Final Day Group Photo
	Lunch Break 13:20-14:00 @ W5 Grill Restaurant
	Award Ceremony
	Conference Concludes

Bookmark your dates

16th International Conference & Exhibition on

Pharmaceutics & Novel Drug Delivery Systems

March 19-21, 2018 Berlin, Germany



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