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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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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: 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 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 I: Procainamide conjugated to 5-aminosalicylic acid via an azo bond
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: Enhancement of dissolution of Atorvastatin through preparation of solid dispersions using supercritical fluid technology
Rana Obaidat, Jordan University of Science and Technology, Jordan

PNDDS24 Title: Exploitation of hydrazone bond to deliver Doxorubicin
Azzurra Agostini, Polytechnic University of Milan, Italy

PNDDS25 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

PNDDS26 Title: Innovative strategies for enhancing topical drug delivery
Renata F V Lopez, University of São Paulo, Brazil

PNDDS27 Title: Evaluation of co-processed excipients for Ezetimibe liquisolid formulation
Mai Khanfar, Jordan University of Science and Technology, Jordan

PNDDS28 Title: Development and validation of high performance liquid chromatography method for Atorvastatin calcium in pharmaceutical dosage forms
Mine Diril, Ege University, Turkey

PNDDS29 Title: Development and evaluation of Self-Emulsifying Drug Delivery System (SEDDS) pellet for Atorvastatin calcium
Mine Diril, Ege University, Turkey

PNDDS30 Title: Development and evaluation of self microemulsion drug delivery system for Atorvastatin calcium
Mine Diril, Ege University, Turkey

PNDDS31 Title: Determination of critical micelle concentration of lipid based systems with Cisplatin
Irfan Akartas, Ege University, Turkey

PNDDS32 Title: Development and validation of a simple and sensitive HPLC assay method for determination of Cisplatin
Irfan Akartas, Ege University, Turkey

PNDDS33 Title: Development and characterization of self microemulsified drug delivery systems for Cisplatin
Irfan Akartas, Ege University, Turkey

PNDDS34 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

PNDDS35 Title: Optimization of quercetin Oil-in-Water (O/W) nanoemulsion aerosols for pulmonary delivery
Mohd Basyaruddin Abdul Rahman, Universiti Putra Malaysia, Malaysia

PNDDS36 Title: Synthesis of Star copolymers of pyridine-hyperbranched polyglyciodol (Py-HPG) core with multiarms of poly(e-caprolactone)-block-hyperbranched polyglycidol PCL-HPG for drug delivery system
Alaa Kadhim, Sheffield University, 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 26-28, 2018 Rome, Italy

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