



Pharmaceutical Science - translating innovation for delivery to patients

Tuesday 5th September 2023 - Scientific Programme

- 1000 hours Registration, exhibition, poster viewing and refreshments
 1100 hours Welcome - Professor Hannah Batchelor, APS Chair
 1105 hours Opening Plenary - Jo Craig, SVP CMC, NeRRe Therapeutics, "Pharmaceutical Science - Reflections on the Translation of Innovation for Patient Benefit"
 1150 hours Plenary Lecture - Fireside Chat with Maureen Coleman, Chairman CNBioInnovations, Rephine, PIR International and Parafricta, interviewed by Dr Kofi Asare-Addo, Reader in Pharmaceutics and the Admissions Tutor for the Pharmacy (MPharm) course at the University of Huddersfield

1235 - 1400 hours Lunch, exhibition and poster viewing

1400 - 1530 hours Parallel Science Session 1

3D Printing of Pharmaceuticals: from Bench to Patients

Chair: Dr Atheer Awad, Lecturer, University of Hertfordshire

"Engineering of locally applied personalised implants to prevent periprosthetic joint infections using 3D printing technologies"

Dr Dolores Remedios Serrano Lopez, Associate Professor at the School of Pharmacy of Universidad Complutense de Madrid

"Future trends in drug product development - Additive manufacturing of oral dosage forms"

Nadine Gottschalk, Principal Scientist, Merck Life Science KGaA

"Inkjet Printing onto Contact Lenses for Ophthalmic Delivery"

Thomas D Pollard, University College London - podium presentation speaker selected from abstracts

"Limitations of PEO high molecular weight in Fused deposition modelling (FDM) 3d printing to extend drug release"

Nour Nashed, University of Sussex - podium presentation speaker selected from abstracts

Biopharmaceutics on New modalities: Beyond rule of five; oral route

Chair: Professor Nikoletta Fotaki, Professor in Pharmaceutics and Biopharmaceutics, University of Bath

"Biopharmaceutics of oral PROTAC delivery: solubility and permeability challenges"

Dr Magda Swedrowska, Associate Principal Scientist, University of Bath

"Drug delivery technologies for improving the oral bioavailability of biologics"

Dr Stephen T Buckley, PhD, Scientific Vice President, Advanced Drug Delivery, Novo Nordisk

1 x Podium Presentations (15 minutes)
 Speakers selected from Abstracts

Advanced Therapy Medicinal Products and Biotherapeutics

Chair: Dr Zahra Rattray, Senior Lecturer in Translational Pharmaceutics, University of Strathclyde

"Soft implantable cryogel scaffolds for controlled local delivery of therapeutics"

Dr Benjamin Newland, Lecturer at Cardiff University

"Extending the shelf life of fresh starting material and cell-based products for increased quality and accessibility of advanced therapies"

Dr Steve Swioklo, Chief Scientific Officer, Atelerix Limited

"Developing and delivering the gold standard of Patient and Public Involvement (PPI) into research: the patient voice matters"

Dr Sandra Quinn, CPsychol. Health Services Research Manager, Myeloma UK

"Assembly properties of complex drug delivery systems"

Kevin Treacher - podium presentation speaker selected from abstracts

1530 - 1600 hours Refreshments, exhibition and poster viewing

Tuesday 5th September 2023 - Scientific Programme (continued)

1600 - 1730 hours Parallel Science Session 2

Process Engineering and Formulation Focus Group

Chairs: Ranjithkumar Dhenge, GlaxoSmithKline and Jason Crooks, GlaxoSmithKline

Drugs from Natural Sources Focus Group - Translational innovations for new anti-cancer and anti-protozoal agents?

Chair: Professor Michael Heinrich, UCL School of Pharmacy, University London

Skin Forum

Chair: Professor Adrian Williams, Professor of Pharmaceutics University of Reading School of Pharmacy

"Continuous Direct Compression: Accelerated Development"

Dr Gurjit Bajwa, Process Engineering and Analytics Lead, GlaxoSmithKline Fellows Alumni

"Subtractive manufacturing of tablets at the Point-of-Care"

Dr Mohamed A Alhnan, Senior Lecturer in Pharmaceutical Medicine, King's College London

"A strategy for assessing muco-adhesive potential in dosage forms employing bio-adhesive materials"

Roderick Stewart, Aston University, Birmingham - podium presentation speaker selected from abstracts

"Inhibition of Nitrosamine Drug Substance-Related Impurity in a Tablet Formulation - A Proof of Concept Study"

Xiaolei Wang, Scientific Leader, MDS-PDS-PD-Oral & Inhaled, GlaxoSmithKline - podium presentation speaker selected from abstracts

"RXR and ROR as targets for natural product (analogues)"

Univ.-Prof. Dr Verena M. Dirsch Department of Pharmaceutical Sciences, (Division of Pharmacognosy), Faculty of Life Sciences, University of Vienna

"Does *Cryptolepis sanguinolenta* have potential as a source of novel and sustainable antimalarial drugs?"

Professor Colin W. Wright, Professor of Pharmacognosy, School of Pharmacy and Medical Sciences, University of Bradford

"Anticancer Evaluation of Alkaloids from *Psychotria montana* (Rubiaceae)"

Yuye Shuai, University of Nottingham - podium presentation speaker selected from abstracts

"*Tribulus terrestris* Cytotoxicity against Breast Cancer MCF-7 and Lung Cancer A549 Cell Lines Is Mediated..."

Ali Mohamend Alshabi, Najran University, Saudi Arabia - podium presentation speaker selected from abstracts

"Skin physiology and skin health"

Professor Stuart Jones, Chair in Pharmaceutical Medicine, Director of the Centre for Pharmaceutical Medicine Research, Institute of Pharmaceutical Science, King's College London

"The clinical and patient impact of effective skin care"

Dr Liam McAuley, Head of the Centre for Research in Topical Drug Delivery and Toxicology at the University of Hertfordshire

"Feeding filaggrin; targeted support of a key aetiological pathway in Atopic Dermatitis"

Dr Neil Gibbs, Founder and CSO, Curapel

"Nanoemulsion as Novel Nanocarrier for Topical Delivery of Mupirocin"

Bahjat Alhasso, University of Huddersfield - podium presentation speaker selected from abstracts

"Dissolving microarray patches loaded with a rotigotine nanosuspension: potentially an alternative to the conventional Neupro® patch"

Yaocun Li, Queens University Belfast

1730 hours Drinks Reception and Poster Viewing

Wednesday 6th September 2023 - Scientific Programme

0830 hours Registration, exhibition, poster viewing and welcome refreshments

0900 hours APS Science Award Presentation - Professor Hannah Batchelor, APS Chair

0915 hours APS Science Award Lecture - David S. Jones, Professor of Pharmaceutical and Biomaterial Engineering

"Acrylates, Hydrogels and Flashing Lights: designing clinically relevant implants and drug delivery systems"

0945 hours Plenary Lecture - Professor Abdul Basit, Professor of Pharmaceutics, University College London

"Clinical translation of 3D printed medicines"

1030-1100 hours Refreshments, Exhibition and Poster Viewing

Computational Methods in Pharmaceutical Science. United Kingdom and Ireland Controlled Release Society (UKICRS)
 Chair: Professor Gareth Williams, University College London

Biopharmaceutics on New Modalities: Beyond Rule of Five; Non-Oral Route
 Chair: Professor Nikoletta Fotaki, Professor in Pharmaceutics and Biopharmaceutics, University of Bath

Nanomedicine
 Chair: Dr Elaine Ferguson, Formulation Consultant, Stonepharma Limited

"Keeping powders relevant in the structural characterisation of pharmaceuticals"

Kenneth Shankland, Prof. of Pharmaceutical Crystallography, University of Reading

"An Introduction to Machine Learning Methods for Formulation Science"

Dr David Shorthouse, Lecturer, UCL School of Pharmacy

"Investigating Water Transport Mechanisms in Film Coated Placebo Tablets at Body Temperature Using Terahertz Pulsed Imaging"

Mingrui Ma, University of Cambridge - podium presentation speaker selected from abstracts

"Title t.b.c."

Ben Forbes

"Nasal Biopharmaceutics: fit for current and future needs?"

Dr Alison Lansley, Principal Lecturer, University of Brighton

"Subcutaneous Biopharmaceutics: Building tools for a flexible future"

Kate Harris, Associate Principle Scientist, Biopharmaceutics, AstraZeneca

"Developing a Robust In Vitro Release Method for a Polymeric Nanoparticle: Challenges and Learnings"

Vasiliki Paraskevopoulou - podium presentation speaker selected from abstracts

"Title t.b.c."

Claire Patterson MPharm PhD, Director of Pharmaceutical Science, Seda

"Title t.b.c."

Dr Lydia C Powell, Lecturer, Swansea University Medical School

"DNA Nanostructures for Antimicrobial Drug Delivery"

Dr Ioanna Mela, Royal Society University Research Fellow and Assistant Professor in Pharmacology

"Novel Eco-Benign Synthesis of Isoniazid-Loaded Silver Nanoparticles: An Innovative Strategy for Drug-Resistant Tuberculosis Treatment"

Tamara Akpobolokemi, Kings College London - podium presentation speaker selected "from abstracts

"Evaluation of the NanoDis as an automated sampling technology platform for the In Vitro Release testing of Nanomedicines. Case study: Polymeric nanoparticle in vitro release method"

Heather Mead, AstraZeneca - podium presentation speaker selected "from abstracts

Nanotechnology for Precision Medicine Applications. United Kingdom and Ireland Controlled Release Society (UKICRS)
Chair: Dr Katie Ryan, Lecturer in Pharmaceutics, School of Pharmacy, University College Cork

Joint Pharmaceutical Analysis Group (JPAG)
Chair: Professor Laura Waters, Professor of Pharmaceutical Analysis, School of Applied Sciences, University of Huddersfield

Navigating the Evolving Regulatory Landscape
Chair: Colm Reddington, Director CMC Regulatory Affairs, AstraZeneca

"Nano-omics: nanotechnology-enabled harvesting of blood-circulating biomarkers"
Dr Marilena Hadjidemetriou, Lecturer in Nanomedicine, NanoOmics Team Leader

"Lipid Nanoparticles for Combinatory Nucleic Acid Delivery for Cancer Immunotherapy"
Professor Khuloud Al-Jamal, FRSC, FRPharmS, FHEA, Chair of Drug Delivery and Nanomedicine, Head of Medicines Development, Institute of Pharmaceutical Science, King's College London

"Use of nanostructured lipid carriers (NLCs) as platform for delivery of antioxidants to the skin and hair follicles to enhance the effects of scalp cooling therapy in a bid to change the face of cancer"
Ana-Maria Totea, University of Huddersfield - podium presentation speaker selected from abstracts

"Evaluation of Biological Activity and Potential for Oral Drug Delivery of Human Milk Extracellular Vesicles"
Xiang Luo, PhD Pharmaceutical Science, Institute of Pharmaceutical Science, School of Cancer and Pharmaceutical Science, King's College London

"Bench to bedside: breath testing for early disease detection and precision medicine"
Dr Dahlia Salman, Bioxhale Limited CEO

"Sequence Engineering to Improve the "Syringeability" of High-Concentration Monoclonal Antibody Formulations"
Georgina Armstrong, PhD Student, Senior Scientist, BioPharm Process Research, Drug Substance Development, GlaxoSmithKline

Modulation of bacterial infection and inflammation by release of lactide from a silicone elastomer device"
Kaifeng Huang, Queen's University Belfast - podium presentation speaker selected from abstracts

"Effects of Benzalkonium Chloride on Planaria Mobility and Potential as an Alternative Model in Nasal Toxicity Testing"
Manel Habel, University of Reading - podium presentation speaker selected from abstracts

"Title t.b.c."
Matt Popkin, Senior Director, CMC Excellence, GSK R&D

"Enabling Bedside Manufacture - Point of Care; an innovative regulatory framework"
Dr Elspeth Gray, Quality Assessor, MHRA

"Implementation of 3D Printing of Personalised Medicines in a Clinical Setting"
Alvaro Goyanes, Director and Cofounder at FabRx

1500 hours Refreshments, Exhibition and Poster Viewing

1530 hours Exhibitors Session and Showcase - Maureen Coleman, Chairman CNBioInnovations, Rephine, PIR

1645 hours International and Parafricta

1700 hours Innovative Science Award Presentation - Jason Crooks, GlaxoSmithKline

Innovative Science Award Lecture (sponsored by GlaxoSmithKline) - "Time Trials - Precise Timing of Drug Delivery for the Treatment of Cortisol Deficiency" - Martin Whitaker, PhD, Royal Society Entrepreneur in Residence, The University of Sheffield

1730 hours Close

1900 hours Conference Dinner at Town Hall

Thursday 7th September 2023 - Scientific Programme

- 0830 hours Registration, exhibition, poster viewing and welcome refreshments
0900 hours Emerging Scientist Award Presentation (sponsored by Pfizer)
0915 hours Emerging Scientist Award Lecture - "A tale of badly behaving proteins, bioinspired delivery systems and inspirational women" - Dr Zahra Rattray, Senior Lecturer in Translational Pharmaceutics
0945 hours Plenary Lecture - Julien Meissonnier, Chief Scientific Officer, Catalent

1030 hours Refreshments, Exhibition and Poster Viewing

1115 - 1245 hours Parallel Science Session 1

Microfluidics and lab-on-a-chip: from drug delivery to discovery

Chair: Professor Dimitrios Lamprou, Professor in Pharmaceutical Engineering, Queens University Belfast

New Scientists Focus Group

Chair: Beatriz Pereira, Senior Formulation Scientist, AstraZeneca

Material Science Focus Group

Chair: Elaine Stone

"Lab-on-a-Chip for Metastatic Bone Disease"

Dr Stefaan Verbruggen, Lecturer in Medical Technology, Queen Mary University of London

"Microfluidics for personalised medicine: Drug testing on patient-derived organoids"

Professor Gabriele Dubini, Professor of Bioengineering Chair, PhD Programme in Bioengineering, Department of Chemistry, Materials and Chemical Engineering 'Giulio Natta', Politecnico di Milano

2 x Podium Presentations (15 minutes)
Speakers selected from Abstracts

"Fireside Chat"

Professor Bill Dawson with Beatriz Pereira

"Comparison of Titanium Dioxide-containing and Titanium Dioxide-free Film Coating Systems"

Simon Lawrence, Pharmaron - podium presentation speaker selected from abstracts

"Investigating surface-induced polymorphism of mannitol: new insights using simultaneous thermal analysis-synchrotron X-ray diffraction"

Asma Buanz, University of Greenwich - podium presentation speaker selected from abstracts

"Porosity as a CQA for Immediate Release Tablets: Science, Measurement and Process Integration"

Professor Axel Zeitler, Professor of Microstructure Engineering and Deputy Head of Department (Research) at the Department of Chemical Engineering and Biotechnology, University of Cambridge

"Embedding Materials Science at the heart of product control strategy for medicine patients delivery assurance"

Lucrecia Caran Missart, Comparability and Characterisation Lead, Analytical and Materials Science, MSAT, GlaxoSmithKline

"Material Science - Get it Right"

Dr Mridul Majumder, Founder and Director, M2M Pharmaceuticals Limited

1300 hours Lunch, Exhibition, Poster Viewing and Prizes - Close of Conference

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