

Programme

08:30 Arrival, registration and coffee in Fish Room, Ground Floor

09.00 **CAREERS FAIR** opens in Council Room, First Floor

09.00 **POSTER VIEWING** opens in the Science Room, Ground Floor

9.30 to 10.00 Posters to be attended

10.45 Refreshments in Fish Room, Ground Floor

11.00 **SYMPOSIUM** Chair: Dr Dave Elder, JPAG and Consultant
Library, First Floor

Introduction

11:10 **Keynote 1:** Pharmaceutical innovation; change is NOT a choice
Professor Trevor Jones CBE

11:40 **Invited short papers; Session 1**

11.40 An insight into understanding chlorhexidine release from hydrogel muco-adhesive buccal tablets using conventional and novel dissolution methods

Enas Al-Ani , David J. Hill , Stephen T. Britland and Claire Martin, *University of Wolverhampton*

12.00 Inkjet printing crystalline pharmaceuticals: characterisation, challenges and opportunities

Asma Buanz, Simon Gaisford, *UCL*

12.20. Investigating orthogonal in vitro analytical approaches to demonstrate bioequivalence of nasal suspension formulations

Goncalo Farias , Robert Price Debbie Huck-Jones, Paul Kippax and Jagdeep Shur, *University of Bath*

12:40 Buffet lunch and Poster viewing in Science Room, Ground Floor;
Careers Fair in Council Room, First Floor

13.00 to 13.30 Posters to be attended

14:40 **SYMPOSIUM** Chair: Professor Tony Moffat, JPAG and UCL
Library, First Floor

Invited short papers; Session 2

14.40 Separation and identification of polyfluorinated ephenidine regioisomers using 60 MHz ^{19}F -NMR techniques

Matthew C. Hulme, Oliver B. Sutcliffe, Ryan E. Mewis, David C. Williamson, *Manchester Metropolitan University*

15.00 Development of a multivariate quantification method to determine the polymorphic composition of carbamazepine

Philip Lynch, Yiwei Tian, Shu Li, David S Jones, Gavin P Andrews, *Queen's University Belfast*

15.20. Will my drugs and polymers mix? The trouble with in silico predictions of solid dispersions
Eleanor R. Turpin, Vincenzo Taresco, Jonathan Burley, Charles A. Laughton, Kevin Treacher,
Jonathan Booth, Martin C. Garnett, *University of Nottingham*

15:40 Refreshments and Poster viewing in Science Room, Ground Floor

16:40 **Invited short papers; session 3**

16.40. Solid phase microextraction (SPME): drug detection in tissues and organs
Baker, D.A., Murnane, D., Gerhard, U, Spooner, N., White S. and Scott-Stevens, P., *University of Hertfordshire*

17.00. Use of In-line PAT to control distillation end point at a third party manufacturer
Laura Palmer, *GlaxoSmithKline*

17:20 **Keynote 2:** Driving future acceleration in the molecule to medicine journey;
what pharmaceutical science skills are critical?
The acceleration of the molecule to medicine journey; the changing shape of impactful
innovation models to drive acceleration; current challenges and emerging skills
requirements for pharmaceutical scientists.
Professor Melissa Hanna-Brown, Pfizer Global R&D

17:50 Announcement of prize winners

18:00 Career networking, wine reception & refreshments in Science Room, Ground Floor

18:30 Close of meeting

POSTERS in Science Room, Ground Floor

1. An insight into understanding chlorhexidine release from hydrogel muco-adhesive buccal tablets using conventional and novel dissolution methods
Enas Al-Ani, David J. Hill, Stephen T. Britland and Claire Martin, University of Wolverhampton.
Corresponding author: e.al-Corresponding author: ani@wlv.ac.uk

2. Solid phase micro-extraction (SPME): drug detection in tissues and organs
Baker, D.A., Murnane, D., Gerhard, U., Spooner, N., White S. and, Scott-Stevens, P., University of Hertfordshire.
Corresponding author: d.baker21@herts.ac.uk

3. Separation and identification of polyfluorinated ephedrine regioisomers using 60 MHz
â€œbenchtâ€œ NMR techniques
Matthew C. Hulme, Oliver B. Sutcliffe, Ryan E. Mewis, David C. Williamson, Manchester Metropolitan University, All Saints Campus, Manchester, M15 6BH
Corresponding author: matthew.hulme@stu.mmu.ac.uk

4. Investigating orthogonal in vitro analytical approaches to demonstrate bioequivalence of nasal suspension formulations
Gonçalo Farias, Robert Price Debbie Huck-Jones, Paul Kippax and Jagdeep Shur, University of Bath, UK.

Corresponding author: G.Farias@bath.ac.uk

5. Investigating the microstructure of dry powder inhalers (DPI) using orthogonal analytical approaches

Gonçalo Farias , William Ganely , Debbie Huck-Jones , Paul Kippax , Jagdeep Shur & Robert Price,

Department of Pharmacy and Pharmacology, University of Bath & Malvern Instruments Limited, Malvern

Corresponding author: G.Farias@bath.ac.uk

6. Development of a multivariate quantification method to determine the polymorphic composition of carbamazepine

Philip Lynch, Yiwei Tian, Shu Li, David S Jones, Gavin P Andrews, School of Pharmacy, Queen's University Belfast, Northern Ireland.

Corresponding author: plynch16@qub.ac.uk

7. Cytotoxicity of *Ruta chalepensis* against human cancer cell lines

Afaf Al-Groshi, Andrew R. Evans, Fyaz M. D. Ismail, Lutfun Nahar and Satyajit D. Sarke, Liverpool John Moores University, Liverpool

Corresponding author: .M.AlGroshi@2014.ljmu.ac.uk

8. Identification and biological evaluation of novel synthetic cannabinoid- like molecules.

Michelle Botha, Suzanne Fergus, Jacqueline L Stair and Stewart B Kirton, University of Hertfordshire

Corresponding author: m.botha@herts.ac.uk

9. Fluorogenic substrates for the detection of biological fluids and fingerprints

James Gooch, Barbara Daniel, Vincenzo Abbate, Nunzianda Frascione, King's College London

Corresponding author: james.gooch@kcl.ac.uk

10. A correlation of the physical attributes of a potent anti-onychomycotic dosage form with microbiological performance.

Dinesh Kapu, Carmel Kealey, Damien B Brady and James J Roche, Athlone Institute of Technology, Ireland

Corresponding author: dkapu@research.ait.ie

11 Screening the biological activity of stilbene sulphonamide analogues

Rhamiya Mahendran, M T Cook, S Rossiter, J Basin, V Hutter, University of Hertfordshire

Corresponding author: r.mahendran2@herts.ac.uk

12. Development of a liposomal dry powder for inhalation containing chloramphenicol for use in CF

Natalie Orr, Prof. Michael Tunney, Dr Vicky Kett, School of Pharmacy, QUB

Corresponding author: norr03@qub.ac.uk

13. Formulation and optimization of transfersomes for sustained buccal delivery of local anaesthetic

Ruba Bnyan, Iftikhar Khan, Sarah Gordon, Imran Saleem, Touraj Ehtezazi, Francis O'Neill and Matt Roberts, Liverpool John Moores University, Liverpool

Corresponding author: R.A.bnyan@2015.ljmu.ac.uk

14. Construction of drug-lipid thermodynamic phase diagrams by analysis of melting point depression using Flory-Huggins Interaction Theory.

Shane Cullen, Yiwei Tian , Gavin Andrews, Queen's University, Belfast, Northern Ireland

Corresponding author: scullen09@qub.ac.uk

15. The effect of HEUR architecture on stability of oil-in-water emulsions

Mervat S. Ibrahim and Peter C. Griffiths, University of Greenwich

Corresponding author: im838@gre.ac.uk

16. Assessment of chalcones as cancer chemo-preventive agents

Hiba Jasim, Satyajit D Sarker, Sharon Moore, Ketan Ruparelia, Randolph Arroo and Kenneth Richie, Liverpool John Moores University

Corresponding author: h.a.jasim@2014.ljmu.ac.uk

17. CYP4F2 genotype affects circulating plasma vitamin k concentration in children on chronic warfarin therapy

Emmanouela Kampouraki, Peter Avery, Tina Biss, Farhad Kamali. Newcastle University

Corresponding author: Farhad.kamali@newcastle.ac.uk

18. Investigating the role of common cutting agents and adulterants in precluding the detection of novel psychoactive substances in complex mixtures using handheld Raman instrumentation

H S Nkwamo, J Calvo-Castro, M Norbury. S Kirton, and J Stair, University of Hertfordshire

Corresponding author: nkwamsstevinho@yahoo.fr

19. Developing a method for the elemental profiling of novel psychoactive substances using Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES)

Rafique, N, Calvo-Castro, J and Stair, J L, University of Hertfordshire

Corresponding author: ijnazia@yahoo.com

20. Multi-bounce ATR FTIR measurement of live cells in response to anticancer drugs

Ali I. Altharawi, K.L. Andrew Chan

Institute of Pharmaceutical Science, School of Biomedical Sciences, King's College, London

Corresponding author: ali.altharawi@kcl.ac.uk

ABSTRACTS

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CAREERS ADVISOR COMPANIES

Speaker biographical details



Prof Melissa Hanna-Brown - Pfizer

Melissa's career began as an Lecturer in Separation Sciences at King's College London (Pharmacy) and she later moved to industry (Pfizer) as a Lead Separation Scientist in a technology team. She later moved to lead API and DP late development teams supporting regulatory filing preparation and interactions and method transfer to manufacturing sites. Her most recent roles have a global matrixed leadership focus on Technology & Innovation strategy and implementation across small molecule Pharmaceutical Sciences. Melissa has represented Pfizer on the EFPIA Analytical Lifecycle Management team since 2007 and sits on the BP AQB working party. She is also an elected member of the Royal Society of Chemistry (RSC) Council and immediate past-President of the RSC Analytical Division. Melissa was named in the 2016 International Female Power List for Analytical Science and in the 2017 Top 10 Pharma Pioneers in the Analytical Science Power List and she is currently leading on the CAMS-UK initiative (<https://cams-uk.co.uk/>).



Prof Trevor Jones - King's College London

Prof Jones is Chairman of the international Clinical Research Organisation, Simbec-Orion, a member of the Boards of the Global Life Sciences investment company; Arix Bioscience; the Oxford based Drug Discovery Company ,e-Therapeutics; and the UK Stem Cell Foundation (UKSCF) .Until March 2015 Prof Jones was a Director of Allergan Inc (USA) and formerly, R&D Director of The Wellcome Foundation, where he was responsible for the development of AZT (HIV/AIDS), Zovirax (Herpes), Lamictal (Epilepsy), Malarone (Malaria) and other medicines. For 10 years Professor Jones was Director General of The Association of the British Pharmaceutical Industry (ABPI). He is a member of the Wales Government, Bevan Commission; advising The Minister of Health on the National Health Service

Delegate information

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