

Wednesday 11<sup>th</sup> September

10.00 Registration, exhibition, poster viewing and welcome refreshments

**S1.1**

11.00 Opening Plenary  
*Chair: Professor Cameron Alexander, Nottingham*  
*Dr Mark McAllister, APS Chair*

12.00 Smart cancer nanomedicine  
*Professor Twan Lammers, Head of Department Nanomedicine and Theranostics, RWTH Aachen University*

13.00 Lunch, exhibition and poster viewing

14.00 Parallel sessions

<b>S1.2A</b> <b>Medicinal Chemistry</b>	<b>S1.2B</b> <b>Material Science</b> Challenges with biologics <i>Biologics are a growing area which require new ways of working</i>	<b>S1.2C</b> <b>Skin Forum</b>
<p><i>Chair: Professor Helen Osborn, Professor of Biomedical Chemistry, University of Reading</i></p> <p><b>Professor Mike Waring</b>, Professor of Medicinal Chemistry, School of Natural and Environmental Sciences, Newcastle University</p> <p><b>New approaches to hit finding in drug discovery</b></p> <p><b>Dr Zoe Wallwe</b>, Senior Lecturer in Chemical Biology, School of Pharmacy, University of East Anglia</p> <p><b>Adventures with Four-Stranded DNA</b></p> <p><i>2 podium presentations from submitted abstracts</i></p>	<p><i>Chair: Gavin Andrews Queen's University of Belfast</i></p> <p><b>Fergal O'Brien</b>, Royal college of surgeons, Belfast</p> <p><b>David Parmley</b></p> <p><b>Centre for Process Innovation Materials Science challenges when developing an oral mAb product. Centre for Process Innovation</b></p> <p><i>2 podium presentations from submitted abstracts</i></p>	<p><i>Chair: Majella Lane, Senior Lecturer, Pharmaceutics, University College London</i></p> <p><b>Dr David Scurr</b>, Senior Research Fellow, University of Nottingham</p> <p><b>Novel Insights into Skin Biology and Permeation of Actives using ToF-SIMS and 3D OrbiSIMS</b></p> <p><b>Dr Bruno Sil dos Santos</b>, Lecturer in Pharmaceutical Science and Pharmacology, School of Human Sciences, London Metropolitan University</p> <p><b>Crossing old barriers and printing new ones: skin, nails and additive manufacturing</b></p> <p><i>2 podium presentations from submitted abstracts</i></p>

15.30 Refreshments, exhibition and poster viewing

16.00 Parallel sessions

<b>S1.3A</b> <b>Drugs from Natural Sources</b>	<b>S1.3B</b> <b>Material Science</b> Diversity in Amorphous materials <i>Covering co-crystals,            nanoformulations, co-amorphous            systems</i>	<b>S1.3C</b> <b>Advanced Therapies</b>
<p><i>Chair to be announced</i></p> <p><b>Professor Dr Thomas Efferth</b></p> <p><b>Taxonomy, Phylogeny and DNA Barcoding Strategies for Herbal Medicines</b></p> <p><b>Professor Julie Hawkins, Professor of Plant Systematics and Evolution, School of Biological Sciences, University of Reading</b></p> <p><b>Title to be announced</b></p> <p><i>2 podium presentations from submitted abstracts</i></p>	<p><i>Chair: Sheng Qi, Reader, University of East Anglia</i></p> <p><b>Kristof Kimpe</b></p> <p><b>Formulate me tinder</b>  <b>Formulation challenges, both for oral and Parenteral, covering preclinical, clinical stages and both long acting – immediate release Janssen small molecules</b></p> <p><b>Yaroslav Khimyak, University of East Anglia</b></p> <p><i>2 podium presentations from submitted abstracts</i></p>	<p>Sarah Goulding, Innovate UK Knowledge Transfer Network (KTN)</p> <p><i>Chair: Dr Andreea Iftimia-Mander, BChemE MScChemE PhD, Innovation Lead - Enabling Programmes, UK Research and Innovation</i></p> <p><b>TBD: Fungayi Chidothe, MD</b>  <i>Head of Strategy &amp; Planning Cell and Gene Therapy Catapult</i></p> <p><i>2 podium presentations from submitted abstracts</i></p>

17.30 Parallel sessions

<b>S1.4A</b> <b>Exhibitor presentations</b>	<b>S1.4B</b> <b>Exhibitor presentations</b>	<b>S1.4C</b> Activities of Knowledge Transfer Network
<p>- M2M Pharmaceuticals Ltd</p> <p>- Presentations 2 and 3 to be announced</p>	<p><i>Presentations to be announced</i></p>	<p><i>Chair: Sarah Goulding, Innovate UK, Knowledge Transfer Network (KTN)</i></p> <p><b>Dr Andreea Iftimia-Mander, BChemE MScChemE PhD, Innovation Lead - Enabling Programmes, UK Research and Innovation</b></p>



18.00 Posters and networking

19.00 PharmSci 2019 BBQ

Thursday 12<sup>th</sup> September

8.00 Registration, exhibition, poster viewing and welcome refreshments

**S2.1**

9.00 **The potential of 3D printing in the development and manufacture of medicines and its impact upon Pharmacy**

*Professor Clive Roberts, Professor of Pharmaceutical Nanotechnology, Head of School of Pharmacy, University of Nottingham*

**APS Science Award sponsored by Astra Zeneca**

10.00 Plenary session  
**Speaker and title to be announced**

11.00 Refreshments, exhibition and poster viewing

11.30 Parallel sessions

<b>S2.2A</b> <b>Smarter medicines by design</b> <b>United Kingdom &amp; Ireland</b> <b>Controlled Release Society</b> <b>(UKICRS)</b>	<b>S2.2B</b> <b>Biopharmaceutics</b> <i>Next generation delivery systems for the delivery of complex molecules'</i>	<b>S2.2C</b> <b>Diagnostics for detection of microorganisms</b>
<p><i>Chair: Yvonne Perrie</i></p> <p><b>Dr Maria J. Vicent, PhD, Polymer Therapeutics Lab, Centro de Investigación príncipe Felipe</b></p> <p><b>Polypeptide-based conjugates as versatile therapeutics</b></p> <p><b>Dr Asha Kumari Patel, Lecturer in Cell &amp; Gene Therapy, Imperial College London</b></p> <p><b>Developing inhaled mRNA therapeutics for lung disease</b></p> <p><i>2 podium presentations from submitted abstracts</i></p>	<p><i>Chair: Dr Mark McAllister, APS Chair</i></p> <p><b>Professor Randy Mrsny-University of Bath</b>  <b>Title to be announced</b></p> <p><b>Vipul Yadav, Intract's Director of Research</b>  <b>Title to be announced</b></p> <p><i>2 podium presentations from submitted abstracts</i></p>	<p><i>Chair: Professor Martin Snowden, University of Greenwich</i></p> <p><b>Dr Ashraf Ismail, McGill University, Canada</b></p> <p><b>Microbial Identification and Typing by Fourier Transform Infrared (FTIR) and NMR Whole-Organism Fingerprinting Techniques</b></p> <p><b>Dr Alexander Edwards, Associate Professor, University of Reading</b></p> <p><b>Tiny Test Tubes for Rapid Antibiotic Susceptibility Testing: Low-Cost Smartphone Analytical Microbiology Using Microcapillary Film</b></p> <p><i>2 podium presentations from submitted abstracts</i></p>

13.00 Lunch, exhibition and poster viewing

14.00 Parallel sessions

<b>S2.3A</b> Smarter Medicines by Design 2 <b>United Kingdom &amp; Ireland</b> <b>controlled release society (UKICRS)</b>	<b>S2.3B</b> New Scientist Focus Group	<b>S2.3C</b> 3D Printing
<p><i>Chair: Laura Mason, Upperton Pharma Solutions (UKICRS Treasurer)</i></p> <p><b>Dr Enrico Ferrari, Senior Lecturer, University of Lincoln</b></p> <p><b>Design of nanomedicines by smart decoration of gold nanoparticles</b></p> <p><b>Professor Manuel Salmeron-Sanchez, FRSE, Chair of Biomedical Engineering, Head of Division of Biomedical Engineering, School of Engineering, University of Glasgow</b></p> <p><b>Title to be announced</b></p> <p><i>2 podium presentations from submitted abstracts</i></p>	<p><i>Chair: David Streather, AstraZenaca</i></p> <p><b>Dr Asma Buanz, Lecturer in Pharmaceutical Engineering, UCL School of Pharmacy</b></p> <p><b>Pushing the boundaries to make better medicines</b></p> <p><b>Mr Jean Philippe Ganay, Senior Associate Scientist, Pfizer</b></p> <p><b>Title to be announced</b></p> <p><b>Farnaz Esmaeili, GSK</b></p> <p><b>Journey of a pharmaceutical scientist to serve the patients</b></p> <p><i>2 podium presentations from submitted abstracts</i></p>	<p><i>Chair: Professor Dennis Douroumis, Head of Medway school of Pharmacy, University of Greenwich</i></p> <p><b>Professor Jukka Rantanen</b> <i>Professor of Pharmaceutical Technology and Engineering, Department of Pharmacy, University of Copenhagen</i></p> <p><b>Printing of information-rich pharmaceuticals</b></p> <p><b>Dr Sheng Qi, Reader, University of East Anglia</b></p> <p><b>A toolkit for the rational formulation development of 3D printed pharmaceutical solid dosage forms</b></p> <p><i>2 podium presentations from submitted abstracts</i></p>

15.30 Refreshments, exhibition and poster viewing

16.00 Parallel sessions

<p><b>S2.4A</b>          New Scientist Focus Group  <b>Career options in the pharmaceutical industry and networking skills</b></p>	<p><b>S2.4B</b>          Review session: Antibody-drug conjugates</p>	<p><b>S2.4C</b>          Review session: Immunotherapy</p>
<p><i>Chair: Professor Laura Waters</i></p> <p><b>Dr Bruce Alexander &amp; Yvonne Pendry, University of Greenwich</b></p>	<p><b>Dr Mark Frigerio, Director, Chemistry UK, Abzena</b></p>	<p><b>Professor Robin Shattock, Faculty of Medicine, Department of Medicine, Chair in Mucosal Infection and Immunity, Imperial College London</b></p>

17.15 – 18.15 **S2.5 Debate on open access**  
**Speakers and titles to be announced**

19.00 APS Black tie dinner – Painted Hall

Friday 13<sup>th</sup> September

8.00 Registration, exhibition, poster viewing and welcome refreshments

**S3.1**

9.00 Innovative Science Award Plenary Lecture  
*Professor Abdul Basit, University College London*

09.50 Plenary session  
**Chair, speakers and titles to be announced**

10.40 Closing address  
*Professor Cameron Alexander, Nottingham, Dr Mark McAllister, APS Chair and Professor Martin Snowden*  
**Chair, speakers and titles to be announced**

11.00 Refreshments, exhibition and poster viewing

11.30 Parallel sessions

<b>S3.1A</b> <b>Nanomedicines Focus Group</b> Pharmaceutical Sciences in a changing world with the sub themes of sustainability and diversity	<b>S3.1B</b> <b>Process engineering and Product formulation</b> Manufacturing Classification System (MCS) Recent developments and Future Opportunities	<b>S3.1C</b> Biotherapeutics & vaccines and parenterals
<p><i>Chair to be announced</i></p> <p><b>Professor Hélder A. Santos</b>, <i>Associate Professor</i></p> <p><b>Multifunctional nanomedicines for cancer and cardiovascular diseases</b></p> <p><b>Dr Floriane Séquier</b>, <i>Team Leader, Global Product Development, AstraZeneca</i></p> <p><b>Progressing the Development of AZD2811 Nanoparticles for Intravenous Administration</b></p> <p><i>2 podium presentations from submitted abstracts</i></p>	<p><b>Neil Dawson</b>, <i>Pfizer R&amp;D &amp; Kendal Pitt</i>, <i>GSK Manufacturing</i></p> <p><b>MCS Recent developments and publications</b></p> <p><i>Audience Interaction and Discussion</i></p> <p><b>MCS Future opportunities</b></p> <p><i>2 podium presentations from submitted abstracts</i></p>	<p><b>Chair to be announced</b></p> <p><b>Dr Jonathan Bones</b>, <i>Principal Investigator, National Institute for Bioprocessing Research and Training</i></p> <p><b>Title to be announced</b></p> <p><b>Speaker 2 and title to be announced</b></p> <p><i>2 podium presentations from submitted abstracts</i></p>

13.00 Lunch, exhibition and poster viewing

14.00 Close of conference