

Wednesday 11th September

10.00	Registration, ex	hibition, poster viewing and we	elcome refreshments	
11.00-13.00 -	Plenary session	S1 LECTURE THEA	TRE 11_0003 Stockwell St Bldg	
11.00	Welcome			
11.15	Dr Mark McAllister, APS Chai r Opening plenary Professor Cameron Alexander, CChem, FRSC, FHEA, FIMMM, Science Chair – UK PharmSci 2019, Professor of Polymer Therapeutics, Royal Society Wolfson Research Merit Fellow,			
12.00		nam nart cancer nanomedicine mers, Head of Department Nanomedici	ine and Theranostics, RWTH Aachen	
13.00	Lunch exhibitio	n and poster viewing	UNDERCROFT	
			UNDERCITOR 1	
14.00-15.30 -	Parallel sessions	s S1.2		
S1.2A: Medici Chair: Professor H Professor of Biome University of Read	lelen Osborn, edicinal Chemistry, ing	S1.2B: Material science challenges with biologics Chair: Dr Philipp Seib, Senior Lecturer in Cellular Pharmaceutics, University of Strathclvde	S1.2C: Skin Forum Chair: Dr Majella Lane, Senior Lecturer, Pharmaceutics, University College London	
QA063 / Counci Queen Anne Co		LT QA080 Queen Anne Court Building	LT QA065 Queen Anne Court Building	
Drug Discovery, Sy	irector of Oncology ygnature Discovery logy drug discovery ading next?	Professor Fergal O'Brien, Professor of Bioengineering and Regenerative Medicine Royal College of Surgeons in Ireland 3D Biomaterial scaffold-based delivery platforms for enhanced tissue repair	Dr David Scurr, Senior Research Fellow, University of Nottingham Novel Insights into skin biology and permeation of actives using ToF-SIMS and 3D OrbiSIMS	
University of East	School of Pharmacy,	Dave Parmley, Senior Research Engineer, Centre for Process Innovation Materials science challenges when developing an oral mAb product. Centre for process innovation	Dr Bruno Sil dos Santos, Lecturer in Pharmaceutical Science and Pharmacology, School of Human Sciences, London Metropolitan University Crossing old barriers and printing new ones: Skin, nails and additive manufacturing	
Physical Chemistry Greenwich	Principal Lecturer in , University of Iubility of econazole	Podium presentations: Dr Silvia Sonzini, Senior Scientist, AstraZeneca Sizing at the nanoscale: an orthogonal approach	Podium presentations: Heba Abdelwahab, PhD Student, School of Pharmacy, QUB Novel microneedles array design and nanocapsules; A promising drug delivery system to improve the intradermal delivery and photodynamic activity of hypericin to skin melanoma cancer	
Florence Osuagwu Keele University Novel calix [4] res nanocarriers for e solubilisation: Sy octaamino-substi resorcinarenes	enhanced drug nthesis of	Juan Dominguez Robles, School of Pharmacy, Queen's University Belfast Lignin-PLA composites for additive manufacturing applications: A potential material for healthcare applications	Emma McAlister, Research Fellow, Queen's University Belfast The use of directly compressed tablets combined with novel hydrogelforming microneedles for the transdermal delivery of a low molecular	

15.30 Refreshments, exhibition and poster viewing

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Greenwich 2019

16:00-17:30 - Parallel session S1.3A: Drugs from natural	S1.3B: Diversity in amorphous	S1.3C: ATMPs -what's next in
sources Chair: Professor Michael Heinrich, UCL School of Pharmacy, University London and Dr Sukvinder K Bhamra, University of Kent QA063 / Council Room Queen Anne Court Building	materials covering co-crystals, nano formulations and co- amorphous systems Chair: Dr Sheng Qi, Reader, University of East Anglia LT QA080 Queen Anne Court Building	the pipeline and what are the manufacturing challenges? Chair: Dr Andreea Iftimia-Mander, Innovation Lead - Enabling Programmes, UK Research and Innovation LT QA065 Queen Anne Court Building
Professor Dr Thomas Efferth, Editor-in- Chief, Phytomedicine. Chair, Department of Pharmaceutical Biology Institute of Pharmacy and Biochemistry, Johannes Gutenberg University Systems biology of natural products for cancer therapy	Dr Kristof Kimpe, Principal Scientist, Johnson and Johnson Formulate me tinder – tackling formulation design @ Janssen	Dr Fungayi Chidothe MD, Head of Strategy and Planning, Cell and Gene Therapy Catapult A leader in innovation: The UK's ATMP ecosystem
Professor Julie Hawkins, Professor of Plant Systematics and Evolution, School of Biological Sciences, University of Reading Taxonomy, phylogeny and DNA barcoding strategies for herbal medicines	Professor Yaroslav Khimyak, Professor in NMR Spectroscopy, School of Pharmacy, University of East Anglia Molecular level understanding of pharmaceutical materials: from encapsulated solids to soft matter	Angela Osborne, Managing Director, ATMP Manufacturing Community ATMP Manufacturing Community
Podium presentations: Taherali Farhan, UCL School of Pharmacy Local colonic application of monoclonal antibodies – does mucus hinder their permeation?	Podium presentations: Michael Devlin, PhD researcher, University of Strathclyde Structure and transformations in amorphous paracetamol	Podium presentation: Dr Pratik Gurnani, Research Fellow, University of Nottingham Using hydrophobicity to tune the hydrolysis rate of charge switchable non-viral polymeric gene delivery
Idowu Eniafe Fadayomi, PhD Student, Keele University Characterization of anti-ovarian cancer diterpenoids in Justicia insularis and their roles in apoptosis	Dr Steven Ross, University of Greenwich Coprocessing of pharmaceutical cocrystals for high quality and enhanced physicochemical stability	vectors
17:30-18:00 - Parallel session	IS S1.4	
S1.4A: Exhibitor	S1.4B: Exhibitor	S1.4C: The innovation
presentations Chair: Professor Trevor M Jones CBE FMedSci	presentations Chair: Jo Craig, SVP CMC, NeRRe & KaNDy Therapeutics	landscape for medicines manufacturing Chair: Dr Marcel Kuiper, Knowledge

LT QA065 Queen Anne Court Building

Dr Mridul Majumder, BPharm Founder & Director, M2M Pharmaceuticals Ltd M2M Pharmaceuticals Ltd: Our Journey So Far... Dr Simon Roberts, Account Manager (Pharmaceuticals, UK & Ireland), Ashland Specialties UK Ltd Aquarius Genesis – an ultra-high speed, high gloss film coating system in continuous and batch processes

QA063 / Council Room **Queen Anne Court Building**

Dr Nachal Subramanian, Sales Executive -Benelux **Dynamic Vapour Sorption technology** for pharmaceutical applications

David Evans, Technical Product Manager, Genvolt Ltd Powering nano technology

Transfer Manager Health, Knowledge Transfer Network Ltd **LT QA080**

Queen Anne Court Building

Dr Andreea Iftimia-Mander, BChemE MSChemE PhD, Innovation Lead -Enabling Programmes, UK Research and Innovation **UKRI and ISCF landscape**

18.00 Posters and networking 19.00 PharmSci 2019 BBQ, poster prizes and networking event





Thursday 12 th September				
08.30 Registration, ex	xhibition, poster viewing and w	elcome refreshments		
impact upon pharr) printing in the development and main nacy			
 Professor Clive Roberts, Professor of Pharmaceutical Nanotechnology, Head of School of Pharmacy, University of Nottingham 10.00 The role of health economics in the development, evaluation and commissioning of new technologies Professor Rachel Elliott, Professor of Health Economics, Deputy Centre Lead, Manchester Centre for Health 				
11.00 Refreshments,	exhibition and poster viewing	UNDERCROFT		
11.30-13.00 - Parallel session	s S2.2			
S2.2A: Smarter medicines by design 1 - United Kingdom & Ireland Controlled Release Society (UKICRS) Chair: Dr Zahra Rattray, Chancellor's Fellow and Lecturer, Strathclyde Institute	S2.2B: Biopharmaceutics Next generation delivery systems for the delivery of complex molecules Chair: Dr Mark McAllister, APS Chair	S2.2C: Diagnostics for detection of microorganisms Chair: Professor Martin Snowden, Pro Vice Chancellor, University of Greenwich		
of Pharmacy and Biomedical Sciences LT QA080 Queen Anne Court Building	LT QA065 Queen Anne Court Building	QA063 / Council Room Queen Anne Court Building		
Dr Maria J. Vicent, PhD, Polymer Therapeutics Lab, Centro de Investigación príncipe Felipe, Spain Polypeptide-based conjugates as versatile therapeutics	Professor Randy Mrsny, Professor of Epithelial Cell Biology, Department of Pharmacy and Pharmacology, University of Bath Update on oral delivery of therapeutic proteins and peptides	Dr Ashraf Ismail, Associate Professor, Food Science and Agricultural Chemistry, McGill University, Canada Microbial identification and typing by Fourier Transform Infrared (FTIR) and NMR whole-organism fingerprinting techniques		
Dr Asha Kumari Patel, Lecturer in Cell & Gene Therapy, Imperial College London Developing inhaled mRNA therapeutics for lung disease	Dr Vipul Yadav, Director of Research, Intract Pharma Ltd Converting injectable antibodies into safe and simple oral pills?	Dr Alexander Edwards, Associate Professor of Biomedical Technology, Reading School of Pharmacy Tiny test tubes for rapid antibiotic susceptibility testing: Low-cost smartphone analytical microbiology using microcapillary film		
Podium presentations: Dr Thais Abelha, Research Fellow, University of Nottingham Nanoparticle uptake screening in	Podium presentations: Professor Andrew Lewis, VP R&D, Biocompatibles UK Ltd Unlocking the DEBIRI paradox	Podium presentations: Dr Keng Wooi Ng, Lecturer, Newcastle University Gel-based, 3D visual and colorimetric		

Nanoparticle uptake screening in different human cell lines: effect of nanoparticle size, PEG length and cell type

Dr Asma Patel, Senior Director Development, Quotient Sciences Clinical optimisation of modifiedrelease CNS products using formulation design space strategies Dr Robert Cavanagh, Post-Doctoral Research Fellow, University of Nottingham

Screening of mixed co-poly(estercarbonate) PEG-based nanoparticles for breast cancer therapy: an in vitro and biodistribution based approach

microneedles Dr Dharaminder Singh, Senior Bioengineer, CNBio A microfluidic addition and removal device for the investigation of the **PK/PD/efficacy relationship of PI3K**

detection of a skin cancer biomarker

using immunodiagnostic

inhibitors in vitro





13.00 Lunch, exhibition and poster viewing13.00 APS Annual General Meeting

14.00-15.30 - Parallel sessions S2.3

S2.3A: Smarter medicines by design 2 - United Kingdom & Ireland Controlled Release Society (UKICRS) Chair: Dr Maria Marlow, University of Nottingham

LT QA080 Queen Anne Court Building

Dr Enrico Ferrari, Senior Lecturer, University of Lincoln Design of nanomedicines by smart decoration of gold nanoparticles

Professor Manuel Salmeron-Sanchez, FRSE, Chair of Biomedical Engineering, Head of Division of Biomedical Engineering, School of Engineering, University of Glasgow Advanced biomaterials for engineered in vitro tissue models

Podium presentations:

Andi Dian Permana, PhD Student, School of Pharmacy, Queens University Belfast

Enhanced intradermal delivery of ivermectin using the combination of nanosuspensions and dissolving microneedles as a therapy for lymphatic filariasis

Giuseppe Uras, PhD student, University of Nottingham - School of Pharmacy Newly synthesized AChE inhibitor with dual binding site reduces the β amyloid aggregation in a Drosophila Alzheimer's Disease model S2.3B: New Scientist Focus Group Chair: David Streather, AstraZeneca

QA063 / Council Room Queen Anne Court Building

Dr Asma Buanz, Lecturer in Pharmaceutical Engineering, UCL School of Pharmacy Pushing the boundaries to make better medicines

Jean Philippe Ganay, Senior Associate Scientist, Pfizer A day in the life of a formulation scientist

Dr Farnaz Esmaeili, Senior Scientist, CGT department, GSK Journey of a pharmaceutical scientist to serve the patients

Podium presentations:

Elliott Higgin, Postgraduate Research Student, King's College London Design and generation of new absorption enabling peptides for oral delivery of biologics

Sarah J Trenfield, PhD Researcher, UCL School of Pharmacy Track-and-Trace: Novel anticounterfeit measures for 3D printed medicines using smart material Inks Sophia Nikoleta Economidou, Medway School of Pharmacy, University of Kent 3D printed microneedles combined with a microelectromechanical system (MEMS) for transdermal drug delivery

15.30

Refreshments, exhibition and poster viewing

UNDERCROFT QA080, Queen Anne Court Building

S2.3C: 3D printing

Chair: Professor Dennis Douroumi, Professor in Pharmaceutical Technology and Process Engineering, Director of Centre for Innovation in Process Engineering and Research (CIPER)

LT QA065 Queen Anne Court Building

Professor Jukka Rantanen, Professor of Pharmaceutical Technology and Engineering, Department of Pharmacy, University of Copenhagen, Denmark Printing of information-rich pharmaceuticals

Dr Sheng Qi, Reader, University of East Anglia A toolkit for the rational formulation

development of 3D printed pharmaceutical solid dosage forms

Automated therapy preparation using 3D printing of isoleucine formulations for treatment of MSUD: first single-

Podium presentations:

Sarah J Trenfield

for treatment of MSUD: first singlecentre, prospective, crossover study





Greenwich 2019

16.00-17.15 – Parallel session	s S2 4	
S2.4A: New Scientist Focus Group Career options in the pharmaceutical industry and networking skills Chair: Dr Matt Reason, Materials	S2.4B: Review session: Antibody-drug conjugates Chair: Jo Craig, SVP CMC, NeRRe & KaNDy Therapeutics	S2.4C: Review session: Immunotherapy Chair: Professor Bill Dawson, Consultant, Bionet
Technical Lead, GSK LT QA080 Queen Anne Court Building	QA063 / Council Room Queen Anne Court Building	LT QA065 Queen Anne Court Building
Dr Bruce Alexander, Principal Lecturer, Physical Chemistry, University of Greenwich & Dr Yvonne Pendry, Postgraduate Progression Coordinator, Employability & Careers Service University of Greenwich Career options in the pharmaceutical	Dr Mark Frigerio, Vice President, Design and Development, Abzena An overview of the ADC design and development landscape	Professor Robin Shattock, Chair in Mucosal Infection and Immunity, Faculty of Medicine, Department of Medicine, Imperial College London Emerging technologies for vaccines and biotherapeutics

industry and networking skills

LECTURE THEATRE 11_0003 Stockwell St Bldg

17.15-18.00 - Plenary S2.5. 17.15 **Debate on oper**

Debate on open access What do we want from publishing – Open Access and beyond.... David Jones, Pro-Vice-Chancellor for Education and Students at Queen's University Belfast Anne Marie Pordon, Publisher Pharmacology and Pharmaceutical Sciences, Elsevier

19.00

APS Black-Tie dinner

THE PAINTED HALL





Friday 13th September

09.00-11.00 - Pla 09.00 Inn Pro Los 09.50 Em Dr Nat 10.40 Clos Unit Dr 207 Unit Dr Pro 10.40 Clos Pro Pro Nation Pro Clos Pro Dr Pro Dr Pro	enary session povative Science ofessor Abdul Bas st in translation nerging Scientist Clare Hoskins, Se no-assassins for osing address ofessor Cameron A 19, Professor of P iversity of Notting Mark McAllister, A ofessor Martin Sno efreshments, of rallel sessions	Award Plenary Lecture (sponsored b it, Pharmaceutics, University College Lo Award Plenary Lecture (sponsored b enior Lecturer in Pharmaceutics, Keele Lo pancreatic cancer therapy Alexander, CChem, FRSC, FHEA, FIMM Polymer Therapeutics, Royal Society Wo ham	TRE 11_0003 Stockwell St Bldg by GSK) ondon, School of Pharmacy by Pfizer) University MM, Science Chair – UK PharmSci
09.00 Inn Pro Los 09.50 Em Dr Nat 10.40 Clo 207 207 10.40 Clo Pro 207 10.40 Clo Pro 207 10.40 Clo Pro 207 207 207 10.40 Clo Pro 207 207	novative Science ofessor Abdul Bas st in translation nerging Scientist Clare Hoskins, Se no-assassins for osing address ofessor Cameron A 19, Professor of P iversity of Notting Mark McAllister, A ofessor Martin Sno efreshments, o	Award Plenary Lecture (sponsored b it, Pharmaceutics, University College Lo Award Plenary Lecture (sponsored b enior Lecturer in Pharmaceutics, Keele U pancreatic cancer therapy Alexander, CChem, FRSC, FHEA, FIMM Polymer Therapeutics, Royal Society Wo ham APS Chair owden, University of Greenwich	by GSK) ondon, School of Pharmacy by Pfizer) University MM, Science Chair – UK PharmSci
11.30-13.00 - Par S3.2A: Nanomedi Group Pharmaceu in a changing world themes of sustaina diversity Chair: Dr Philipp Seib, Strathclyde Institute of Biomedical Sciences LT QA065 Queen Anne Court Professor Hélder A. Sa Professor, Nanomedicia Biomedical Engineering Helsinki, Finland Multifunctional nanom cancer and cardiovas Dr Floriane Séquier, Te Global Product Develop AstraZeneca Progressing the deve AZD2811 nanoparticle	rallel sessions	exhibition and poster viewing	
S3.2A: Nanomedi Group Pharmaceu in a changing world themes of sustaina diversity Chair: Dr Philipp Seib, Strathclyde Institute of Biomedical Sciences LT QA065 Queen Anne Court Professor Hélder A. Sa Professor, Nanomedicia Biomedical Engineering Helsinki, Finland Multifunctional nanom cancer and cardiovas Dr Floriane Séquier, Te Global Product Develop AstraZeneca Progressing the deve AZD2811 nanoparticle			
Podium presentations Az Alddien Natfji, PhD of Pharmacy, University Polymer-drug conjuga prodrug systems, a st peripheral localisation retained biological ac Dr Cynthia Bosquillon,	tical sciences d with the sub ability and Senior Lecturer, Pharmacy and Building antos, Associate ines and g, University of medicines for scular diseases eam Leader, pment, clopment of es for ration s: Student, School y of Reading ates as non- trategy offering n of drugs and ctivity	 S3.2 S3.2B: Process engineering and product formulation Manufacturing Classification System (MCS) recent developments Chairs: Neil Dawson, Pfizer R&D & Dr Kendal Pitt, Senior Technical Director, Pharma Supply Chain, GSK LT QA080 Queen Anne Court Building Neil Dawson, Pfizer R&D & Dr Kendal Pitt, Senior Technical Director, Pharma Supply Chain, GSK MCS Recent developments and publications Audience Interaction and Discussion MCS future opportunities Podium presentations: Hetvi Triboandas, PhD student, De Montfort University Continuous manufacture and monitoring of itraconazole amorphous solid dispersions by hot melt extrusion using in-line UV-Vis 	S3.2C: Biotherapeutics, vaccines and parenterals Chair: Dr Rachel Knott, Reader School of Pharmacy and Life Sciences, Robert Gordon University QA063 / Council Room Queen Anne Court Building Dr Jonathan Bones, Principal Investigator, National Institute for Bioprocessing Research and Training Multi-attribute testing for biotherapeutics Dr Ian Anderson, Senior Manager (Analytical Sciences), Allergan Biologics Ltd (R&D), Estuary Banks Analytical challenges of using adeno- associated virus as a delivery system for gene therapy Podium presentations: Dr Joshua Boateng, University of Greenwich at Medway Development and characterization of protein loaded biomaterial based composite dressings for the treatment of chronic wounds Dr Nathalie Lavignac, Lecturer, Medway
Evaluation of lysoson sequestration in bron cells as a mechanism retention in the lungs 13.00 Lu		Strathclyde Manufacture of fully synthetic liposomes using microfluidics	Poly(amidoamine)/protein conjugates

