

Agenda O Day 1 O Monday 9th March 2020

7:40 AM - 8:40 AM	Registration & Refreshments
8:40 AM - 8:50 AM	Chair's Opening Remarks Room 1 Anand Subramony, Vice President, External Innovation & Novel Technologies, AstraZeneca
8:50 AM - 9:25 AM	Leveraging New Therapeutic Modalities to expand the Druggable Target Space Room 1 • Keynote • Technology & Innovation Shalini Andersson, Chief Scientist New Therapeutic Modalities, AstraZeneca Please note that this will be a remote presentation
9:30 AM - 10:05 AM	Pharmaceutical Salts and Co-crystal Development; from Conformer Selection to Continuous Manufacture: A Quality by Design Approach Room 1 • Case Study • Small Molecules Steven Ross, Research Associate in pharmaceutical processes Pharmaceutical, University of Greenwich
	Data Sciences meet Formulation Development: Workflow in Vaccine Formulation Development Using Integrative High Throughput/High Content Approaches Room 2 • Case Study • Biologics Joao Miguel Freire, Scientist Formulation Science & Technology (FST), Janssen
	Al in Formulation Development for Amorphous Dispersions Room 3 • Case Study • Technology & Innovation Matthias Erber, Laboratory head in Formulation Development Parenterals, Bayer Please note that this will be a remote presentation
	Differentiation for Injection Devices: A Guide for Better Patient Safety Room 4 • Case Study • Device Development Agathe Buffard, Human Factors – Device Manager I, Novartis Please note that this will be a remote presentation
10:10 AM - 10:45 AM	Targeting Small Molecules to Lymph: Methods and ApplicationsRoom 1 • Case Study • Small MoleculesDaniel Bonner, Vice President, PureTech HealthPlease note that this will be a remote presentation
	Freeze Drying Process Design Using a Design Space Approach Room 2 • Case Study • Biologics Benoit Koumurian, Drug Product Process Engineer, Sanofi
	Clinically Relevant Drug Product Specifications Room 3 • Case Study • Technology & Innovation Andreas Abend, Director Analytical Sciences, MSD Please note that this will be a remote presentation
	First-Time-Use Experience Room 4 • Case Study • Device Development Rémy Kohler, Human Factors Engineer, Device and Packaging Development, Roche Please note that this will be a remote presentation

11:35 AM - 12:10 PM	Achieve Complex Drug Release Profiles for Solid Oral Dosage Forms Room 1 • Solution Spotlight • Small Molecules Dr Carol Thomson, Chief Executive Officer, BDD Pharma
	Trehalose and Sucrose: Essential Components of Platform Biopharma Formulations Room 2 • Solution Spotlight • Biologics Dr. Christian Lotz , General Manager, EMEA, Pfanstiehl
	Transdermal Therapeutic Systems – Still an Attractive Technology?! Room 3 • Solution Spotlight • Technology & Innovation Dr. Marco Emgenbroich, Corporate Vice President Head of Pharmaceutical Development I R&D, LTS Lohmann
	MDR and Combination Products Room 4 • Solution Spotlight • Device Development Richard Featherstone, Research Director, Human Factors Research and Design, Emergo by UL
12:15 PM - 12:50 PM	Summary of Six Years of Progress in the Oral Biopharmaceutics Area – the EU/IMI project OrBiTo Room 2 · Case Study · Biologics Bertil Abrahamsson, Senior Principal Scientist , AstraZeneca Please note that this will be a remote presentation
	Nanoparticles and Medicines Design Room 3 • Case Study • Technology & Innovation Professor Andreas Schätzlein, Chair in Translational Therapeutics, UCL School of Pharmacy
	Injectability Modelling for Arbitrary Drug Delivery Devices Room 4 • Case Study • Device Development Nima Aghajari, Senior Simulation Engineer, Sanofi
12:50 PM - 1:50 PM	Networking Lunch
1:50 PM - 2:25 PM	Improving Cancer Treatment using Nanomedicines: CriPec® and CPC634 Room 1 · Case Study · Small Molecules Rachel Hu, Senior Formulation Scientist, Cristal Therapeutics Challenges and Opportunities with Nanotechnology Applied to the Oral Administration
	of Peptides, Proteins and Biologics Room 2 · Case Study · Biologics Alan S Harris, Senior VP GLOBAL R&D LCM, Ferring
	Re-thinking BioTED, a Technical Innovation Portfolio for Biologics Room 3 · Case Study · Technology & Innovation Gregoire Schwach, E2E Home Leader Ocular and Drug Delivery, Roche Please note that this will be a remote presentation
	Interchangeability of Combination Products Room 4 • Case Study • Device Development Mike Tate, Human Factors Manager, Boehringer Ingelheim
2:30 PM - 3:05 PM	An Integrated Approach to Rapidly Advancing Poorly Bioavailable Compounds to the Clinic Room 1 • Solution Spotlight • Small Molecules David Lyon, Senior Fellow, Research, Lonza
	New Silicone-Free Option for Delivery of Sensitive Biologics in Pre-Filled Syringes Room 2 • Solution Spotlight • Biologics
	Russ Hornung, Business Development- Drug Delivery and Packaging, W.L. Gore & Associates Improving Compliance and Accuracy of Dosing in Paediatrics and Patients with Dysphagia Room 3 • Solution Spotlight • Technology & Innovation Simon Hendry, BD Director, Adare Pharmaceuticals Please note that this will be a remote presentation
	New Coated Plungers for Syringes and Auto-Injector Room 4 • Solution Spotlight • Device Development Simon Kervyn, Manager Materials Development , Datwyler Carina Van Eester, Platform Leader PFS and cartridges, Datwyler Sealing Solutions

3:05 PM - 3:55 PM	iSolve & Networking Break
3:55 PM - 4:30 PM	Delivery to Market: Application of Multivariate Analysis to Production Processes Room 1 • Case Study • Small Molecules Paolo Avalle, Associate Principal Scientist, MSD
	Predictive Tools for the Development of Biologics: from Molecule Design to Formulation Stability Prediction Room 2 • Case Study • Biologics Patrick Garidel, Associate Director Protein Science, Boehringer Ingelheim
	Designer Nanomedicines for Cancer Immunotherapy Room 3 • Case Study • Technology & Innovation Professor Khuloud Al-Jamal, Chair of Drug Delivery & Nanomedicine, King's College London
	Dissolvable Microneedle Skin Patches for Vaccination Room 4 • Case Study • Device Development Anne Moore, Professor, University College Cork
4:35 PM - 5:10 PM	Application of Thermodynamic and Kinetic Modeling in ASD Development for Primary Packaging Assessment Room 1 • Case Study • Small Molecules Kristin Lehmkemper, Senior Scientist, AbbVie Please note that this will be a remote presentation
	Should I Mix for an Additional 5 min? Setting up the Mixing Parameters for Protein Drug Manufacturing with Computational Fluid Dynamics Room 2 • Case Study • Biologics Omar Naneh, Senior scientist BPD DPD Operational Sciences, Novartis
	Drug Delivery Across Biological Barriers for Combatting and Preventing Infectious Diseases Room 3 · Case Study · Technology & Innovation Claus-Michael Lehr, Head of the Department Drug Delivery, Helmholtz Institute for Pharmaceutical Research Saarland
	 3D Printing for the Fabrication of Transdermal Microneedles: In Vitro and in Vivo evaluation Room 4 • Case Study • Device Development Dennis Douroumis, Professor in Pharmaceutical Technology and Process Engineering, Director of Centre for Innovation in Process Engineering and Research (CIPER), University of Greenwich
5:15 PM - 6:00 PM	Cell & Gene Therapies: Current Status and Opportunities Room 1 • Keynote • Biologics Dr. Magdalena Obarzanek-Fojt, Drug Product Leader within Cell and Gene Technical Development, Novartis
6:00 PM - 6:05 PM	Chair's Closing Remarks Room 1 Anand Subramony, Vice President, External Innovation & Novel Technologies, AstraZeneca
6:05 PM - 7:05 PM	Drinks Reception



Agenda O Day 2 O Tuesday 10th March 2020

8:00 AM - 8:45 AM	Registration
8:45 AM - 8:50 AM	Chair's Opening Remarks Room 1
	Anand Subramony, Vice President, External Innovation & Novel Technologies, AstraZeneca
8:50 AM - 9:25 AM	Understanding Developability Assessment of Small Molecules Room 1 • Keynote • Small Molecules Sudhakar Garad, Global Head of Chemical and Pharmaceutical Profiling, Novartis Institutes for BioMedical Research Please note that this will be a remote presentation
9:30 AM - 10:05 AM	Bioavailability Enhancement in Early Formulation Development Room 1 • Case Study • Small Molecules Ildiko Terebesi, Head of Drug Delivery Innovation, Bayer Please note that this will be a remote presentation CMC aspect of Oligonucleotide Therapeutics
	Room 2 • Case Study • Biologics Aleksandra Dabkowska, Associate Principal Scientist, AstraZeneca Please note that this will be a remote presentation
	In Vitro Models of the Blood Brain Barrier and their use in Drug Delivery Studies Room 3 • Case Study • Technology & Innovation Birger Brodin, Professor, University of Copenhagen
	Drug Product Challenges with Closed System Transfer Devices Room 4 · Case Study · Device Development Twinkle Christian , Process Development Scientist, Drug Product Technologies department, Amgen Please note that this will be a remote presentation
10:05 AM - 10:55 AM	iSolve & Networking Break
10:55 AM - 11:30 AM	Analysis from the Tufts Center for the Study of Drug Development to Assess the Financial Benefits from Translational Pharmaceutics®: A Platform for Accelerating Product Development Room 1 • Solution Spotlight • Small Molecules Andrew Lewis, Vice President, Pharmaceutical Sciences, Quotient Sciences
	Polysorbates for Biopharmaceuticals: An Unnecessarily Complex Mixture or Synergistic Blend? Room 2 • Solution Spotlight • Biologics James Humphrey, Applications Specialist, Croda
	Continuous Manufacturing and Influence of Excipient Variation Room 3 • Solution Spotlight • Technology & Innovation Mara van Haandel, Innovation Manager, DFE pharma
	How to Unlock the Potential of Digital to Design Products for the Benefit of all Stakeholders Room 4 · Solution Spotlight · Device Development Clare Beddoes, Senior Medical Innovation and Research Consultant, Cambridge Design Partnership Please note that this will be a remote presentation

11:35 AM - 12:10 PM	Process Material Compatibility Study Concepts Room 1 • Case Study • Small Molecules Thomas Schmidt, Principal Scientist, Novartis
	Selecting Compound for Long Acting Injections and Available Technologies Room 2 • Case Study • Biologics Rene Holm, Head and Scientific Director, Liquids & Parenterals, Janssen Please note that this will be a remote presentation
	Staying Ahead of the Game: Formulation Development Strategies for Biologics and Biosimilars Room 3 • Case Study • Technology & Innovation Sachin Dubey, Deputy Director - Process Sciences I, Ichnos Sciences Please note that this will be a remote presentation
12:15 PM - 12:50 PM	Continuous Melt Granulation of Thermally Labile Drugs Room 1 • Solution Spotlight • Small Molecules Tony Listro, Vice President, Technology, Foster Delivery Science
	Stable Liquid Formulations for Viral Vaccines and Gene Therapy Viral Vectors: Reality or Fantasy Room 2 • Solution Spotlight • Biologics Dr. Andreas Seidl, Chief Operating Officer, LEUKOCARE AG
	Fine Powder Methyl Cellulose and its Dry Binder Application Room 3 • Solution Spotlight • Technology & Innovation Dr. Andreas Sauer, Technical Sales Director, SE Tylose GmbH & Co. KG
	Computer Simulations for Subcutaneous Injections Room 4 • Solution Spotlight • Device Development Joel Gresham, Simulation Expert & Life Sciences Lead, Crux Product Design Ltd. John Majewski, Device Development Engineer, Gilead Sciences
12:50 PM - 1:50 PM	Networking Lunch Lunch and Learn roundtable: Roundtable led by Captisol, a Ligand company Topic: Captisol a Globally Accepted Modified Cyclodextrin in 11 Approved Products. Come and Learn what's New. Moderated by: Vince Antle, Senior Vice President, Technical Operations JD Pipkin, Vice President, New Product Development
1:50 PM - 2:25 PM	Lipid-based Excipients with Advanced Functionality Room 1 • Case Study • Small Molecules Dr. Sharareh Salar-Behzadi, Principal Scientist, Research Center Pharmaceutical Engineering (RCPE)
	Injection Pain with Biologicals Room 2 • Case Study • Biologics Jonas Fransson , Director of Drug Product Development, Swedish Orphan Biovitrum AB <i>Please note that this will be a remote presentation</i>
	Endocytosis for Drug Delivery: Driving the Internalisation and Intracellular Targeting of Therapeutics Room 3 · Case Study • Technology & Innovation Arwyn T. Jones, Professor of Membrane Traffic and Drug Delivery, and Director of Research, School of Pharmacy and Pharmaceutical sciences, Cardiff University
	Inhalation Devices – Device Selection for Drug/Device Combination Products Room 4 • Case Study • Device Development Bernhard Muellinger, Vice President - Inhalation Technology, Vectura

2:30 PM - 3:05 PM	Advances in Dermal Drug Development – The Formulation and The Model Room 1 • Solution Spotlight • Small Molecules Charles Evans, VP of Pharmaceutical Development, MedPharm Please note that this will be a remote presentation
	Extending Shelf Life of Therapeutic Proteins with Hydroxylpropyl &-Cyclodextrins – Mechanistic Understanding of Bevacizumab Stabilization Room 2 • Solution Spotlight • Biologics Shiqi Hong, Senior Biopharma Scientist, Roquette
	Digital Assistant to Support Drug Product Development Room 3 • Solution Spotlight • Technology & Innovation Ferdinand Brandl, Head of Laboratory, BASF SE, Nutrition and Health, Development Pharma Solutions
	How Devices and Services can be part of a Product's Life Cycle Management Room 4 • Solution Spotlight • Device Development Guillaume Brouet, Vice-President - Analytical, Regulatory and Scientific Affairs, Aptar Pharma
3:05 PM - 3:55 PM	Networking Break
3:55 PM - 4:30 PM	3D Printing of Oral Solid Dosage Forms for Controlled Drug Delivery Room 1 • Case Study • Small Molecules Roxanne Khalaj, PhD Researcher, University of Greenwich
	What Can Really be Learned From Early Stage Interaction Measurements Room 2 • Case Study • Biologics Josef Hartl, Scientist, Martin-Luther University Halle-Wittenberg
	Lipid-based Nanocarriers for Oral Peptide Delivery: Hype or Hope? Room 3 • Case Study • Technology & Innovation Andreas Bernkop-Schnürch, Research Group Drug Delivery and Powder Technology, University of Innsbruck
	Integrated approach for Combination Product development Room 4 • Case Study • Device Development Davide Mercadante, Senior Device Quality Engineer, Device Development Quality, Biogen Please note that this will be a remote presentation
4:35 PM - 5:10 PM	Nanomedicine and Nanotechnology Impacts on Pharma Room 1 • Keynote • Small Molecules Christian Jones, Chief Commercial Officer, Nanoform Please note that this will be a remote presentation
5:10 PM - 5:45 PM	Polysorbate Degradation: Implications and Control Room 1 • Keynote • Biologics Kishore Ravuri, Senior Group Leader, Early-Stage Pharmaceutical and Processing Development, Roche
5:45 PM - 6:20 PM	Nanomedicine, Emerging Opportunities in Immunooncology Room 1 • Keynote • Technology & Innovation Anand Subramony, Vice President, External Innovation & Novel Technologies, AstraZeneca Please note that this will be a remote presentation
6:20 PM - 6:25 PM	Poster Presentation Award
6:25 PM - 6:30 PM	Chair's Closing Remarks Room 1 Anand Subramony , Vice President, External Innovation & Novel Technologies, AstraZeneca
6:30 PM - 7:30 PM	Drinks Reception



Agenda O Day 3 O Wednesday 11th March 2020

8:30 AM - 9:00 AM	Registration
9:00 AM - 9:05 AM	Chair's Opening Remarks Room 1 Anand Subramony, Vice President, External Innovation & Novel Technologies, AstraZeneca
9:05 AM - 9:40 AM	What is Pharmaceutical Engineering? Room 1 • Keynote • Small Molecules Jean-René Authelin, Global Head of Pharmaceutical Engineering, Sanofi Please note that this will be a remote presentation
9:40 AM - 10:15 AM	Creating a Digital Ecosystem that Improves Outcomes Room 1 • Keynote • Device Development Matthew Clemente, Vice President, Device Development, Novo Nordisk Please note that this will be a remote presentation
10:20 AM - 10:55 AM	A Convenient Formulation of Orodispersible mini-tablets for Pediatric Administration Room 1 · Solution Spotlight · Small Molecules Dr. Michael Black, Head of Sales Pharma, BENEO-Palatinit GmbH SynBiosys Microparticles for the Development of Long-Acting Injectable Formulations for Biological Therapeutics Room 2 · Solution Spotlight · Biologics Rob Steendam, Chief Technology Officer, InnoCore Pharmaceuticals Novel Screening Tools for Hot-Melt Extrusion – Early Prediction of Formulation Performance Room 3 · Solution Spotlight · Technology & Innovation Thomas Kipping, Head of Drug Carriers, Merck Please note that this will be a remote presentation Innovation in Drug Delivery and the Value of 'Connectivity' to the Pharma Ecosystem Room 4 · Solution Spotlight · Device Development Mark A. Hassett, Vice President of Business Development, Credence MedSystems
10:55 AM - 11:45 AM	Networking break
11:45 AM - 12:20 PM	 Processing Strategies to Prepare Poorly Soluble Drug Compounds by Nanotechnological Formulation Approaches Room 1 · Case Study · Small Molecules Werner Hoheisel, Group Lead Formulation Technologies, Invite Please note that this will be a remote presentation Mesoporous Silica Particles; Simple yet Powerful Tool for the Delivery of Biomolecules Room 2 · Case Study · Biologics Dr Vivek Trivedi, Lecturer, Formulation Science Department of Pharmaceutical, Chemical and Environmental Sciences, University of Kent In Progress, Unique Identifiers on Dosage Forms to Prevent Counterfeits and Falsified Medicines Room 3 · Case Study · Technology & Innovation Sven Stegemann, Professor for Patient Centric Drug Development and Manufacturing, Graz University of Technology Risk Management for Drug-Device Combination Products Room 4 · Case Study · Device Development Torsten Kneuss, QA Manager Combination Products, Bayer Please note that this will be a remote presentation

12:25 PM - 1:00 PM	Computer-aided Formulation Development for Small Molecule Drugs and Biologics Room 1 • Solution Spotlight • Small Molecules John C. Shelley , Schrödinger Fellow, Schrödinger
	Translating Inhaled and Nasal Technologies for the Delivery of Biologics Room 2 • Solution Spotlight • Biologics David Ward, Formulation and Manufacturing Lead, Intertek
	The Accordion Pill®: Unique Oral Delivery to Enhance Pharmacokinetics and Therapeutic benefit of Challenging Drugs Room 3 · Solution Spotlight · Technology & Innovation Ronny Reinberg, Vice President Technology Affairs, Intec Pharma Please note that this will be a remote presentation
1:00 PM - 2:00 PM	Networking Lunch
2:00 PM - 2:35 PM	Multivariate Analysis in the Pharmaceutical Industry Room 1 • Case Study • Small Molecules Mike Tobyn, Research Fellow, Bristol-Myers Squibb Please note that this will be a remote presentation
	Characterization of Protein Based Medicines using Drop Coat Deposition Raman Spectroscopy Room 3 • Case Study • Technology & Innovation Anna Luczak, Senior Scientist, Bristol-Myers Squibb
	Biocompatibility Testing of Medical Devices and Drug Device Combination Products Room 4 • Case Study • Device Development Dr. Clemens Günther, Director Nonclinical Safety CC, Bayer Please note that this will be a remote presentation
2:40 PM - 3:15 PM	Formulation and Evaluation of Midazolam loaded Hydrogel as a Carrier for Nose to Brain Drug Delivery Room 1 • Case Study • Small Molecules Muhammad Akhtar, Associate Professor at Faculty of Pharmacy and Alternative Medicine, The Islamia University of Bahawalpur
	Nanogels for the Intracellular Delivery of Proteins and Peptides Room 2 • Case Study • Biologics Rene van Nostrum, Associate professor, Utrecht University
	Sustained Release Intra-Vaginal Drug Delivery Systems based on Ethylene-Vinyl Acetate: Formulation and Physicochemical Considerations Room 3 · Case Study · Technology & Innovation Amrit Paudel, Assistant Professor & Principal Scientist, Graz University of Technology, Research Center Pharmaceutical Engineering (RCPE)
	Aggregation Propensity and Beneficial Solution Conditions in Antibody Formulations from a Thermodynamic Perspective Room 4 · Case Study · Technology & Innovation Dr. Christoph Brandenbusch, Group Leader, TU Dortmund
3:15 PM - 3:50 PM	CMC Strategies to Accelerate Proof-of-Concept and late-stage development for Oral Drugs in the Biotech Industry Room 1 • Keynote • Small Molecules Jatin Patel, Executive Director, CMC, Constellation Pharmaceuticals
3:50 PM - 3:55 PM	Chair's Closing Remarks Room 1 Anand Subramony, Vice President, External Innovation & Novel Technologies, AstraZeneca