

MONDAY 12th April 2021 Morning	
Continuing Education Programme	
COVID-19 repurposing therapies and vaccines: The evolution of rapid toxicological assessment and regulation Chair: Dr Amy Chadwick	
09:30 – 10:00	An overview of the strategy of repurposing therapies for COVID Prof John Overington (Medicines Discovery Catapult)
10:00 – 10:30	Harnessing knowledge of antiviral pharmacokinetics and pharmacodynamics to rationalise candidates for SARS-CoV-2 Prof Andrew Owen (The University of Liverpool)
10:30 – 11:00	<i>Refreshments</i>
11:00 – 11:30	Design and regulatory requirements for GLP toxicity studies to support vaccine clinical development Dr Lawrence Segal (CEPI)
11:30 – 12:00	Perspectives on how regulators and drug developers have worked together to expedite the approval process Dr David Jones (MHRA)
12.00	End of Programme

MONDAY 12th April 2021 Afternoon															
Congress Programme															
12:45 – 12:58	Congress Welcome BTS President: Professor Shirley Price (University of Surrey)														
12:58 – 13:58	Plenary Lecture: The TeGenero Story – There and Back Again Dr Richard Stebbings (AstraZeneca) <i>Chair: Prof Shirley Price</i>														
14:00 – 15:00	BTS AGM														
15:00 – 15:30	<i>Refreshment Break</i>														
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; text-align: center;">Symposium 1: Experimental data and uncertainty modelling <i>Chairs: Dr Paul Russell</i> [Supported by RSC Toxicology Group]</th> <th style="width: 50%; text-align: center;">Symposium 2: Chemical Weapons: Approach with caution <i>Chairs: Dr James Coulson</i> [Hosted by Human & Clinical Toxicology Section]</th> </tr> </thead> <tbody> <tr> <td>15:30 – 16:00</td> <td>Characterising uncertainty within <i>in vitro</i> models for safety assessment in early drug discovery Dr Delyan Ivanov (AstraZeneca, UK)</td> </tr> <tr> <td>16:00 – 16:30</td> <td>Integration of experimental data into skin allergy modelling Dr Gavin Maxwell (Unilever, UK)</td> </tr> <tr> <td>16:30 – 17:00</td> <td>Determining points of departure from multivariate experimental data Dr Imran Shah (EPA, North Carolina, USA)</td> </tr> <tr> <td>17:00 – 17:15</td> <td><u>Oral Communication</u>: In silico screening for endocrine disruption hazard identification Dr Elena Fioravanzo</td> </tr> <tr> <td>17:15 – 17:45</td> <td><u>Oral Communication</u>: Osmolality and Anion Gaps in Organophosphorus Insecticide Self-Poisoning Mr Jeevan Dhanarisi</td> </tr> <tr> <td>17:45</td> <td style="text-align: center;">Close of Day</td> </tr> </tbody> </table>	Symposium 1: Experimental data and uncertainty modelling <i>Chairs: Dr Paul Russell</i> [Supported by RSC Toxicology Group]	Symposium 2: Chemical Weapons: Approach with caution <i>Chairs: Dr James Coulson</i> [Hosted by Human & Clinical Toxicology Section]	15:30 – 16:00	Characterising uncertainty within <i>in vitro</i> models for safety assessment in early drug discovery Dr Delyan Ivanov (AstraZeneca, UK)	16:00 – 16:30	Integration of experimental data into skin allergy modelling Dr Gavin Maxwell (Unilever, UK)	16:30 – 17:00	Determining points of departure from multivariate experimental data Dr Imran Shah (EPA, North Carolina, USA)	17:00 – 17:15	<u>Oral Communication</u> : In silico screening for endocrine disruption hazard identification Dr Elena Fioravanzo	17:15 – 17:45	<u>Oral Communication</u> : Osmolality and Anion Gaps in Organophosphorus Insecticide Self-Poisoning Mr Jeevan Dhanarisi	17:45	Close of Day
Symposium 1: Experimental data and uncertainty modelling <i>Chairs: Dr Paul Russell</i> [Supported by RSC Toxicology Group]	Symposium 2: Chemical Weapons: Approach with caution <i>Chairs: Dr James Coulson</i> [Hosted by Human & Clinical Toxicology Section]														
15:30 – 16:00	Characterising uncertainty within <i>in vitro</i> models for safety assessment in early drug discovery Dr Delyan Ivanov (AstraZeneca, UK)														
16:00 – 16:30	Integration of experimental data into skin allergy modelling Dr Gavin Maxwell (Unilever, UK)														
16:30 – 17:00	Determining points of departure from multivariate experimental data Dr Imran Shah (EPA, North Carolina, USA)														
17:00 – 17:15	<u>Oral Communication</u> : In silico screening for endocrine disruption hazard identification Dr Elena Fioravanzo														
17:15 – 17:45	<u>Oral Communication</u> : Osmolality and Anion Gaps in Organophosphorus Insecticide Self-Poisoning Mr Jeevan Dhanarisi														
17:45	Close of Day														
15:30 – 16:00	Characterising uncertainty within <i>in vitro</i> models for safety assessment in early drug discovery Dr Delyan Ivanov (AstraZeneca, UK)														
16:00 – 16:30	Integration of experimental data into skin allergy modelling Dr Gavin Maxwell (Unilever, UK)														
16:30 – 17:00	Determining points of departure from multivariate experimental data Dr Imran Shah (EPA, North Carolina, USA)														
17:00 – 17:15	<u>Oral Communication</u> : In silico screening for endocrine disruption hazard identification Dr Elena Fioravanzo														
17:15 – 17:45	<u>Oral Communication</u> : Osmolality and Anion Gaps in Organophosphorus Insecticide Self-Poisoning Mr Jeevan Dhanarisi														
17:15 – 17:45	Symposia Reflection and Discussion														
17:45	Close of Day														

TUESDAY 13th April 2021 Morning	
Interactive Workshop	
10:30 – 11:30	The toxic art of public engagement and outreach Dr Steve Cross (Wellcome Trust Engagement Fellow) <i>Chair: Dr Fiona Sewell</i>
11:30	End of Programme

TUESDAY 13th April 2021 Afternoon			
Congress Programme			
12:45 – 13:45	Paton Prize Lecture: Xenobiotic metabolism, cytochrome P450, microsomes, peroxisomes, nuclear receptors and rodent liver tumours: the scientific adventures of an old dinosaur Professor Brian Lake (University of Surrey) <i>Chair: Prof Shirley Price (University of Surrey)</i>		
	<table border="1"> <tr> <td>Symposium 3: <i>Dose response concerns for in vivo test guidelines: Current human health regulatory needs</i> Chair: Dr Miriam Jacobs [Hosted by <i>Regulatory Toxicology Section</i>]</td> <td>Symposium 4: <i>Application of big data and systems toxicology to drug and chemical safety evaluation</i> Chairs: Dr Carolin Schramm & Dr Muireann Coen [Hosted by <i>Mech. & Disc Toxicology Section</i>]</td> </tr> </table>	Symposium 3: <i>Dose response concerns for in vivo test guidelines: Current human health regulatory needs</i> Chair: Dr Miriam Jacobs [Hosted by <i>Regulatory Toxicology Section</i>]	Symposium 4: <i>Application of big data and systems toxicology to drug and chemical safety evaluation</i> Chairs: Dr Carolin Schramm & Dr Muireann Coen [Hosted by <i>Mech. & Disc Toxicology Section</i>]
Symposium 3: <i>Dose response concerns for in vivo test guidelines: Current human health regulatory needs</i> Chair: Dr Miriam Jacobs [Hosted by <i>Regulatory Toxicology Section</i>]	Symposium 4: <i>Application of big data and systems toxicology to drug and chemical safety evaluation</i> Chairs: Dr Carolin Schramm & Dr Muireann Coen [Hosted by <i>Mech. & Disc Toxicology Section</i>]		
13:47 – 14:17	Regulating human safety: How dose selection in toxicity studies impacts human health hazard assessment and subsequent risk management options Marjolijn Woutersen RIVM		
14:17 – 14:47	Hazard assessment needs for adequate worker health protection Martin Phillips (US EPA)		
14:47 – 15:00	<i>Refreshments Break</i>		
15:00 – 15:30	Kinetically Derived Maximum Dose Concept to Refine Risk Assessment: Opportunities and Challenges: report on HESI KMD workshop 2020 Michelle Embry (HESI)		
15:30 – 15:45	Industry considerations for Guidance on Dose Level Selection for Repeat Dose oral Toxicity Studies Dick Lewis (Syngenta)		
15:45 – 16:15	<i>Symposia Reflection & Discussion Session</i>		
16:17 – 17:02	BTS Network for Early-Stage Toxicologists (BTS-NEST) Invitation Lecture: Computational toxicology for risk assessment – linking <i>in silico</i> predictions to adverse outcomes Dr Tim Allen (Cambridge University) <i>Chair: Dr David Mason (Unilever)</i>		
17:02	Close of Day		

WEDNESDAY 14th April 2021 Afternoon		
Congress Programme		
12:45 – 13:45	Barnes Prize Lecture: Title TBC Dr Bette Meek (University of Ottawa) <i>Chair: Prof Shirley Price (University of Surrey)</i>	
	BTS Selected Short Oral Communications <i>Chairs: Dr Sarah Judge</i>	BTS Selected Short Oral Communications <i>Chairs: Prof Marion MacFarlane</i>
13:47 – 14:02	Target Safety Assessments: Evaluation of the Toxicological Risk of Targeting Plasmepsins in the Treatment of Malaria Dr Jane Barber	Application of in vitro intestinal triple culture model for longer-term repeated nanomaterial exposure and toxicity assessment Dr Victor Ude
14:02 – 14:17	Mitochondrial dysfunction as an off-target effect of antipsychotic drugs Miss Rachel Hardy	Characterising lung dosimetry and implications of aerosol form in early preclinical development of inhaled drugs - overview of an industry-based PhD project Dr Graham Paul
14:17 – 14:32	Demographics of poisonings from records of a poison information centre in a tertiary level centre of central India: A one-year retrospective analysis. Dr Mrinal Patnaik	Long-Fibre Carbon Nanotubes Induce Sporadic Pleural Mesothelioma Recapitulating Human Disease: a role for Epigenetic Mechanisms in Disease Development Dr Joaquin Zacarias Cabeza
14:32 – 14:45	<i>Refreshment Break</i>	
	Symposium 5: The impact of air pollution upon human health <i>Chair: Dr Martin Clift (Swansea University) & Dr Rodger Duffin (University of Edinburgh)</i>	Symposium 6: Collaborating to increase confidence in the application of non-animal approaches <i>Chair: Fiona Sewell</i> [Supported by NC3Rs]
14:45 – 15:15	Coherence between epidemiological and experimental findings - the case of particulate matter Prof. Flemming R. Cassee, (RIVM/Utrecht University, NL) <i>(Dutch Toxicology Society Invitation Lecture)</i>	A novel combinatorial, invertebrate-based platform for a 3Rs approach to assessment of developmental and reproductive toxicity (DART) Prof Alison Woollard (University of Oxford)
15:15 – 15:45	From Car to Coronary: the cardiovascular effects of diesel exhaust particles. Dr Mark Miller (University of Edinburgh, UK)	Defining chemical categories for read-across using omics-derived mechanistic evidence from an invertebrate model Prof Mark Viant (University of Birmingham)
15:45 – 16:15	Ultrafine particles - which metals matter Dr Rachel Smith (Public Health England, UK)	<i>In vitro</i> cross species prediction of kidney excretion: application to agrochemical safety assessment Dr Colin Brown (Newcells Biotech, UK) & Dr Marco Corvaro (Corteva, UK)
16:15 – 16:30	Utility of in vivo stress reporter models as toxicity biomarkers to understand the consequences of environmental exposure at a mechanistic level Dr Francisco Inesta	The development of a 3D cell model using the HepG2 C3A cell line for genotoxicity studies Mr Nicholas Coltman
16:30 – 17:00	Symposia Reflection and Discussion	Symposia Reflection and Discussion
17:02 – 17:47	Early-Career Investigator Prize Lecture: TBC Dr James Thaventhiran <i>Chair: Dr Lesley Reeve (Covance, UK)</i>	
17:47	Close of Day	

THURSDAY 15th April 2021		
13:00 – 13:45	Mid-Career Investigator Prize Lecture: 'Aligning the 3Rs and advancing toxicity testing' Dr Helen Prior (NC3Rs) <i>Chair: Dr Jason Gill (Newcastle University, UK)</i>	
13:47 – 14:02	Prizes and Awards <i>Chair: Prof Shirley Price (University of Surrey)</i>	
	Symposium 7: Policy engagement with Carbon Monoxide (CO): When wedding bells ring for toxicological research <i>Chairs: Prof Shirley Price and Isabella Myers</i> [Hosted by Risk Assessment Speciality Section] [Supported by the Gas Safety Trust]	Symposium 8: <i>In Silico</i> Toxicology – Data, Concepts, and Pitfalls <i>Chairs: Dr Andreas Bender & Dr Darren Kidd</i> [Hosted by Computational and <i>in silico</i> Toxicology Speciality Section] [Supported by IVTS]
14:05 – 14:35	Carbon Monoxide: The issue, policy and time for research Prof Baroness Finlay (Cardiff University & Chair, All Party Parliamentary CO Group; APPCOG) & Mrs Isabella Myers (Chair, All Party Parliamentary CO Medical Sub-Group, COMED)	Computational toxicology – opportunities, pitfalls, and what to watch out for in model predictions Dr Andreas Bender (<i>Uni Cambridge/AstraZeneca</i>)
	The effects of CO exposure on chick embryo development Dr Mari Herigstad (Sheffield Hallam University)	
14:35 – 15:05	Finding blood protein biomarkers to diagnose CO poisoning Dr Chris Morris (Newcastle University)	Integration of high throughput high content <i>in vitro</i> mechanistic understanding and computational approaches for chemical safety prediction. Prof Bob van de Water (University of Leiden, NL)
	Issues in treating CO poisoning: ROS production and oxidative damage during CO-hypoxia and reoxygenation Dr Plamena R. Angelova (University College, London)	
15:05 – 15:35	Investigating the neurological outcomes of CO exposure and the search for a therapeutic Dr Robert Dickinson (Imperial College, London)	Establishing standards for <i>in silico</i> toxicity prediction protocols. Dr Glenn Myatt (<i>Leadscope, Inc. USA</i>)
	The eyes have it: Future research involving pupillometry as a potential diagnostic of low-level exposure to CO Prof Rob Chilcott (University of Hertfordshire)	
15:35 – 16:05	Future Directions in CO Research Adrian McConnell (Gas Safety Trust)	Symposia Reflection and Discussion
	Symposia Reflection and Discussion	
16:07 - 16:20	Close of Congress BTS President: Prof Shirley Price (University of Surrey)	