

MONDAY – 16th April 2018		
09:00	Registration open for CEP and Congress Delegates – <i>Gateshead Foyer</i>	
Continuing Education Programme		
Hillgate Immuno-oncology – safety assessment strategies <i>Chair: Simon Chivers (ADC Therapeutics)</i>		
10:00 – 10:45	IO therapies – safety assessment strategies for therapeutic antibodies Dr Lolke de Haan (MedImmune, UK)	
10:45 – 11:30	CD3 engagers and CART cell therapies and the challenges / issues with safety assessment Jennifer Sims (Integrated Biologix, UK)	
11:30 – 12:00	<i>Refreshments – Gateshead Foyer</i>	
12:00 – 12:45	Animal models in oncology efficacy and safety testing Silvia Guionaud (AstraZeneca, UK)	
12:45 – 13:30	<i>Lunch and Trade Exhibition – Gateshead Foyer</i>	
Congress Programme		
13:30 – 13:45	Pipewellgate/Oakwellgate Welcome by the BTS President Dr Ernie Harpur (Newcastle University, UK)	
13:45 – 14:45	Pipewellgate/Oakwellgate Plenary Lecture: The Science and Art of Implementation: Collaboration, Communication & Caution Ms Syril Pettit (ILSI Health and Environmental Sciences Institute, Washington DC, USA) <i>Chair: Dr Ernie Harpur (Newcastle University, UK)</i>	
	Pipewellgate/Oakwellgate Symposium 1: Liver disease and environmental causes of liver disease <i>Chairs: Sarah Judge (University of Newcastle, UK)</i> <i>Dr Dominic Williams (AstraZeneca, UK)</i>	Hillgate Symposium 2: Respiratory toxicity and lung pathology (BTS/BSTP session) <i>Chairs: Dr Jo Kilgour (Regulatory Science Associates, UK)</i> <i>Dr Catherine Ross (Covance UK)</i>
14:45 – 15:15	Introduction to liver disease Professor Fiona Oakley (University of Newcastle, UK)	Responses of the respiratory tract to toxic injury: adverse vs non adverse findings and impact on drug development Dr Colin Fish (GSK, UK)
15:15 – 15:45	Hepatic responses to injury in liver disease Dr Patricia Lalor (University of Birmingham, UK)	Nanoparticle Toxicology Dr Rodger Duffin (Edinburgh University, UK)
15:45 – 16:15	<i>Refreshments and Trade Exhibition – Gateshead Foyer</i>	
16:15 – 16:45	Immunological mechanisms underlying drug-induced liver diseases Professor Guru Aithal (University of Nottingham, UK)	Air Pollution and Public Health: emerging hazards and improved understanding of risk Professor Frank Kelly (Kings College London, UK)
16:45 – 17:15	Looking for toxins in the environment that could be associated with a trigger for the liver disease PBC Professor Matt Wright (University of Newcastle, UK)	Optical Molecular Sensing and Imaging of Human Disease In Situ Dr Kev Dhaliwal (EPSRC Proteus Group, UK)
17:15 – 18:30	BTS AGM – Pipewellgate/Oakwellgate	
18:30 – 19:30	Drinks Reception with canapés and poster viewing supported by Forthtox - Gateshead Foyer	
19:00 onwards	Society Meetings: Early Career Networking Session <i>supported by Forthtox</i> – Hillgate BTS Speciality Section Networking – Pipewellgate/Oakwellgate	

TUESDAY – 17th April 2018		
08:00	Registration opens - <i>Gateshead Foyer</i>	
08:00 – 08:40	BTS Ambassadors Breakfast	
08:40 – 09:25	<p style="text-align: center;">Pipewellgate/Oakwellgate</p> <p style="text-align: center;">Early Career Investigator Prize Lecture: Role of Nrf2 in protection against drug-induced disease Dr Ian Copple (University of Liverpool) <i>Chair: Professor Tim Gant (Public Health England Centre for Radiation, Chemical and Environmental Hazards, UK)</i></p>	
	<p style="text-align: center;">Pipewellgate/Oakwellgate</p> <p style="text-align: center;">Symposium 3: Advanced <i>in vitro</i> models for inhalation toxicity testing (BTS/IVTS session) <i>Chair: Dr Martin Clift (Swansea University Medical School, UK)</i></p>	<p style="text-align: center;">Hillgate</p> <p style="text-align: center;">Symposium 4: Ageing, Frailty and Multi-morbidity: medical challenges, current interventions, future solutions Co- Sponsored by the Regulatory Toxicology Speciality Section and the Human Toxicology Speciality Section <i>Chairs: Dr Henry Stemplewski (Medicines and Healthcare products Regulatory Agency, UK)</i> <i>Dr John Thompson (Cardiff University, UK)</i></p>
09:30 – 10:00	<i>In vitro</i> systems to study the toxicology of particles and drugs at the epithelial lung tissue barrier Professor Barbara Rothen-Rutishauser (Adolphe Merkle Institute, University of Fribourg, Switzerland)	Ageing and Frailty: time to intervene Professor Thomas von Zglinicki (University of Newcastle, UK)
10:00 – 10:30	Synthetic lung lining fluid model for testing inhaled pharmaceuticals Dr Ben Forbes (King's College London, UK)	Assessment of ageing in preclinical models: current and future models and their clinical relevance Professor Susan Howlett (Department of Pharmacology, Division of Geriatric Medicine Halifax, Nova Scotia, Canada)
10:30 – 11:00	<i>Refreshments and Trade Exhibition – Gateshead Foyer</i>	
11:00 – 11:30	Complex organ-on-chip technology meets routine laboratory work. A breathing human alveolus-on-chip model for in-vitro drug transport and safety studies. Dr Nina Hobi (Alveolix, Switzerland)	Biomarkers of ageing: the results from the EU FP7 MARK-AGE project Dr Andreas Simm (University Hospital Halle [Saale], Germany)
11:30 – 12:00	Use of air-liquid interface models in the pharma space Mrs Kinga Balogh Sivars (AstraZeneca, Sweden)	Ageing, Frailty, Multi-morbidity: current medical interventions, future challenges, possible solutions Professor Iliaria Bellantuono (University of Sheffield Medical School, UK)
12:00 – 12:30	How to get published Rebecca Brodie (Deputy Editor, Toxicology Research) <i>Chair: Professor Tim Gant (PHE & University of Surrey, UK)</i>	
12:30 – 13:30	<i>Lunch and Trade Exhibition – Gateshead Foyer</i>	
13:30 – 14:30	<p style="text-align: center;">Pipewellgate/Oakwellgate</p> <p style="text-align: center;">Paton Prize Lecture: The Importance of Balance in Toxicological Decision Making Professor Lewis Smith (University of Leicester, UK) <i>Chair: Dr Ernie Harpur (Newcastle University, UK)</i></p>	
14:30 – 15:00	<i>Refreshments and Trade Exhibition – Gateshead Foyer</i>	

TUESDAY – 17th April 2018 (Cont'd)		
	Pipewellgate/Oakwellgate	Hillgate
15:00 – 17:00	<p>Oral Communications Chairs: <i>Dr Dominic Williams (Imperial College London, UK)</i> <i>Dr Patricia Parris (AstraZeneca, UK)</i></p> <ul style="list-style-type: none"> • Alistair Leitch: Evidence that CYP3A4 metabolises the ionic liquid M8OI • Arathi Kizhedath: Assessment of hepatotoxic and dermal toxicity effects of Parabens using HepG2 and HDFN in vitro models • Ben Alexander-Dann: Understanding cellular infiltrate toxicity in liver using gene co-expression network methods • Kirsty Meldrum: Cerium dioxide nanoparticles modify the pulmonary response to diesel exhaust particles in a murine model of allergen exposure • Kayleigh Frame: Understanding the Galactose-conditioning Model in HepG2 cells: Beyond bioenergetics reveals additional mechanisms of mitochondrial toxicity • Israa Al-banaa: Neurotoxicological analysis of synthetic cannabinoids using human neuronal stem cells • Dr Emma Marczyklo: Using next generation sequencing to study the environmental mycobiome and its potential health effects • Alex Charlton: The use of a 3D <i>in vitro</i> model of the respiratory tract for risk assessment of an irritant aerosol 	<p>Study Director/Study Monitor Workshop Chairs: <i>Sean O'Halloran (Covance, UK)</i> <i>Graham Morgan (ICON, UK)</i></p> <ul style="list-style-type: none"> • Use of Recovery Dose Animals in Early Toxicology Testing Dr Paul Baldrick (Covance Laboratories Ltd, UK) • Can Study Directors perform miracles!!! Lorraine Britton (Sequani Ltd, UK) • Fundamental considerations for performing a rodent inhalation toxicology study with a pharmaceutical powder formulation Paul A Smith (Charles River Laboratories, UK) • The current status of the GLP/ global GLP debate ongoing with the OECD and Chinese governments David Jones (MHRA, UK)
17:00 – 18:30	Poster Session – Gateshead Foyer	
19:00 – 19:30	Pre-Dinner Drinks Reception supported by ApconiX – Gateshead Foyer	
19:30 – Late	Congress Dinner & Entertainment by Gotcha! – Gateshead Suite	

WEDNESDAY – 18th April 2018		
08:00	Registration opens – <i>Gateshead Foyer</i>	
08:40 – 09:40	<p style="text-align: center;">Pipewellgate/Oakwellgate</p> <p>Oral Presentations <i>Chair: Dr Tina Mehta (Dow Agrosciences, UK)</i></p> <ul style="list-style-type: none"> • Dr Ivano Amelio: The p53 family in the response to hypoxic stress • Dr Ross Kelly: Thermodynamic-based in silico simulations of quinone redox cycling predict doxorubicin-induced mitochondrial oxidative stress • Dr Liza Selley : Non-invasively accessible miRNA biomarkers of pulmonary inflammatory responses in vivo 	
	<p>Pipewellgate/Oakwellgate</p> <p>Symposium 5: Redox and oxidative stress</p> <p><i>Chairs: Professor Tim Gant (PHE & University of Surrey, UK)</i> <i>Dr Carol Courage (Walgreens Boots Alliance, UK)</i></p>	<p>Hillgate</p> <p>Symposium 6: Stem cells and toxicology testing (BTS/RSC session)</p> <p><i>Chairs: Professor Marion MacFarlane (MRC Toxicology Unit, UK)</i> <i>Dr Muireann Coen (AstraZeneca, UK)</i></p>
09:45 – 10:15	Mitochondria and Redox Stress: A Biomarker for Toxicology Professor Victor Darley Usmar (University of Alabama, USA)	Advances in stem cell technologies: impact on toxicology Dr Jason Gill (Newcastle University, UK)
10:15 – 10:45	NRF 2 and antioxidant response Professor John Hayes (University of Dundee, UK)	A human ES cell-based platform for determining selective neurotoxicity Dr Lia Panman (MRC Toxicology Unit, UK)
10:45 – 11:15	<i>Refreshments and Trade Exhibition – Gateshead Foyer</i>	
11:15 – 11:45	Biomarkers of oxidative stress Professor Pietro Ghezzi (Brighton and Sussex Medical School, UK)	High-throughput human Organ-on-a-Chip models for prediction of neurotoxicity Dr Karlijn Wilschut (Mimetas, University of Utrecht, The Netherlands)
11:45 – 12:15	Redox and cellular stress in relation to consumer risk assessments Dr Alistair Middleton (Unilever, UK)	Screening models to improve decision making in drug development: Validation or Qualification? Dr Mark Holbrook (VAST Pharma Solutions, UK)
12:15 – 13:00	<i>Lunch and Trade Exhibition – Gateshead Foyer</i>	
13:00 – 14:00	<p style="text-align: center;">Pipewellgate/Oakwellgate</p> <p>Hot Topic Lecture: Challenges in the Assessment of Nonclinical Pharmacology and Safety of mAb-based Immunology Products Dr Lolke de Haan (MedImmune, UK) <i>Chair: Dr Peter Newham (AstraZeneca, UK)</i></p>	
14:00 – 15:00	<p style="text-align: center;">Pipewellgate/Oakwellgate</p> <p>Public Communications Workshop: Consultation on a BTS public communication initiative; an interactive workshop. <i>Chairs: Phil Botham (Syngenta, UK) and Chris Powell (GSK, UK)</i></p>	
15:00	<i>Close of Congress</i>	