

| MONDAY 4th April 2022 | | |
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| 09:00 | Registration open for CEP and Congress Delegates <i>[Gateshead Foyer]</i> | |
| 11:30 – 12:30 | BTS Scientific Subcommittee Meeting <i>[Meeting Room 2]</i> | |
| Continuing Education Programme | | |
| Risk Assessments - Across the Sectors <i>[Hillgate]</i> | | |
| 09:30 – 9:40 | Introduction <i>Chairs: Jason Manton (Penman Consulting) & Georgia Reynolds (Unilever)</i> | |
| 09:40 – 10:00 | Risk Assessment in the Chemicals Industry, Dr Nick Ball (Dow Chemicals) | |
| 10:00 – 10:20 | Risk Assessment in the Pharmaceutical Industry, Dr Ernie Harpur (Newcastle University) | |
| 10:20 – 10:50 | Refreshments <i>[Gateshead Foyer]</i> | |
| 10:50 – 11:10 | Risk Assessment in the Agrochemical Industry, Dr Neil Morgan (Syngenta) | |
| 11:10 – 11:30 | Risk Assessment in the Consumer Goods Industry, Sophie Cable (Unilever) | |
| 11:30 – 11:45 | Summary <i>Chairs: Jason Manton (Penman Consulting) & Georgia Reynolds (Unilever)</i> | |
| 11:45 – 12:30 | Lunch, & Trade Exhibition <i>[Gateshead Foyer]</i> | |
| Congress Programme | | |
| 12:30 – 12:45 | Congress Welcome BTS President: Prof Shirley Price (University of Surrey) <i>[Pipewellgate/Oakwellgate]</i> | |
| 12:45 – 13:30 | Plenary Lecture: Precision Toxicology and New Approaches Professor John Colbourne (University of Birmingham) <i>Chair: Prof Shirley Price</i> <i>[Pipewellgate/Oakwellgate]</i> | |
| 13:30 – 14:30 | BTS AGM <i>[Pipewellgate/Oakwellgate]</i> | |
| 14.30 – 15.00 | Refreshments, Posters & Trade Exhibition <i>[Gateshead Foyer]</i> | |
| | Symposium 1: Developments in Regulatory Toxicity testing for Endocrine Activity/Disruption <i>Chairs: Dr Miriam Jacobs (PHE) & Konstantinos Papikinos (Evalueserve)</i> [Hosted by Regulatory Toxicology Speciality Section] <i>[Pipewellgate/Oakwellgate]</i> | Symposium 2: MRC ITTP Biannual Symposium <i>Chairs: Prof Marion MacFarlane & Dr Kirsti Hornigold (MRC Toxicology Unit)</i> <i>[Hillgate]</i> |
| 15:00 – 15:30 | The in vitro /in vivo interface: The REACTIVE and RADAR assays for estrogenic and androgenic activity. Dr Andrew Tindall (Watchfrog France) | What Drugs do to our Bugs Dr Kiran Patil (MRC Toxicology Unit, UK) |

This meeting is supported by way of purchase of sponsorship or exhibition space by the companies listed in the exhibition area and is limited to meeting the cost of the scientific meeting with no input to the programme

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| 15:30 – 16:00 | Developing cross species extrapolation tools for endocrine relevant receptors, expanding seqAPASS. Dr Ioanna Katsiadaki (CEFAS, UK) | Safety of RNA Therapeutics Dr Patrik Andersson (AstraZeneca, Sweden) |
| 16:00 – 16:30 | High Throughput in vitro chemical screening for thyroid target sodium iodide symporter (NIS): species comparison, prioritization and computational approaches. Dr Tammy Stoker (US EPA) | Post-authorisation Vaccine Safety Dr Jenn Matthissen (MHRA, UK) |
| 16:30 – 16:45 | <u>Oral Communication</u> : Identify endocrine disrupting chemicals using a suite of complementary in silico models employing semi-automation Elena Fioravanzo (ToxNavigation, UK) | <u>Oral Communication</u> : A potential link between airway toxicity and mitochondrial dysfunction driven by a novel Tap73/OPA1 axis Niall Buckley (MRC Toxicology Unit, UK) |
| 16:45 – 17:00 | Symposium Reflection and Discussion | Symposium Reflection and Discussion |
| 17:00 – 17:15 | <i>Refreshments, Posters & Trade Exhibition</i> [Gateshead Foyer] | |
| 17:15 – 17:45 | The BTS at 50.....golden reflections <i>Chair: Prof Shirley Price</i> [Pipewellgate/Oakwellgate] | |
| 17:45 – 18:30 | Malcolm Blackwell Award & NEST Lecture: Using <i>In Vitro</i> 3D Liver Models for the Development of Hazard Assessment Protocols Following Exposure to Engineered Nanomaterials. Dr Gillian Conway (University of Swansea) <i>Chair: Miss Nevine Amer (University of Hertfordshire & Chair of NEST)</i> [Pipewellgate/Oakwellgate] | |
| 18:30 onwards | Drinks Reception [Gateshead Foyer] | |
| 19:00 onwards | NEST Networking Session [Hillgate] | |

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rsa provides services to the Agrochemical, Pharmaceutical, General and Speciality Chemical Sectors

SPECIALIST AREAS

- Endocrine disruption
- Genetic toxicology
- Metabolism and kinetics
- Mode of action/AOPs
- Reproduction/development
- Carcinogenicity
- Dietary/non dietary exposure
- Ecotoxicology and environmental fate
- Risk assessments
- Classification and labelling
- Pre-clinical toxicology
- Inhalation toxicology
- Pathology

FURTHER SERVICES

- AI and product dossiers for (re) registrations
- Regulatory/technical project management
- Study design/monitoring



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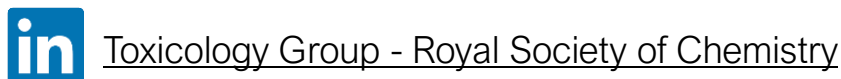


| TUESDAY 5th April 2022 | | |
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| 07:30 – 09:00 | BTS Ambassadors Breakfast | |
| 08:00 | Registration open <i>[Gateshead Foyer]</i> | |
| | <p style="text-align: center;">Symposium 3: The value of nonclinical studies to predict adversity in patients in clinical trials <i>Chairs: Dr Ernie Harpur & Laura Booth (Newcastle University)</i> <i>[Pipewellgate/Oakwellgate]</i></p> | <p style="text-align: center;">Symposium 4: Building confidence in computational models for decision making in Risk Assessment' <i>Chairs: Dr Andreas Bender (Terra Lumina & University of Cambridge) & Paul Russell (Unilever)</i> [Hosted by Computational and in silico Toxicology Speciality Section] [Supported by RSC Toxicology Group] <i>[Hillgate]</i></p> |
| 09:00 – 09:30 | Assessing the Value of Nonclinical Testing to Enable Safe Entry to First in Human Clinical Trials Dr Tom Monticello (Amgen, USA) | Qualification of the Simcyp PBK platform for confident exposure predictions Dr Ian Sorrell (Certara, UK) |
| 09:30 – 10:00 | An overview of the Translational Relevance of Complex in vitro models to assess the Safety of New Medicines Dr Lorna Ewart (Emulate Inc, USA) | An industry perspective strategies on using computational approaches to support decision making in next generation risk assessment Sophie Cable (Unilever, UK) |
| 10:00 – 10:30 | Viewpoint of a Phase I /II Clinician Prof Duncan Richards (University of Oxford, UK) | Computational methods for the regulatory assessment of chemicals Dr George Loizou (HSE, UK) |
| 10:30 – 10:45 | <u>Oral Communication:</u> Statistical analysis of the preclinical inter-species concordance of histopathological findings in the eTOX database Peter Wright (University of Cambridge) | <u>Oral Communication:</u> Prediction of compound plasma concentration time profiles in mice using Random Forests Koichi Handa (University of Cambridge) |
| 10:45 – 11:00 | <i>Symposium Reflection & Discussion Session</i> | <i>Symposium Reflection & Discussion Session</i> |
| 11:00 – 11:30 | <i>Refreshments, Posters & Trade Exhibition supported by RSC Toxicology Group</i> <i>[Gateshead Foyer]</i> | |
| 11:30 – 13:00 | <p style="text-align: center;">BTS Position Workshop Discussion: Animals in Toxicology Exploring opportunities to implement the 3Rs for chemical safety assessment <i>Chair: Dr Phil Botham (Syngenta)</i> <i>[Pipewellgate/Oakwellgate]</i></p> | |
| 13:00 – 14:00 | <i>Lunch, Posters & Trade Exhibition</i> BTS Poster Communications Judging <i>[Gateshead Foyer]</i> | |

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| | BTS Selected Short Oral Communications <i>Chair: Dr Marion McFarlane</i> [Pipewellgate/Oakwellgate] | |
| 14:00 – 14:15 | Non-myocytes in delayed symptomatic anthracycline-induced cardiotoxicity: investigating the roles of cardiac fibroblasts and senescence in the context of subclinical maladaptive myocardial remodelling. Laura Booth (Newcastle University) | |
| 14:15 – 14:30 | Investigating the ability of HepaRG cells to recapitulate drug-induced mitochondrial dysfunction following extended dosing with antibiotics Robyn Kiy (University of Liverpool) | |
| 14:30 – 14:45 | Using Cell Morphology with Gene Expression and Chemical Structure to Improve Prediction of Mitochondrial Toxicity Srijit Seal (University of Cambridge) | |
| | BTS Selected Short Oral Communications <i>Chair: Dr Sarah Judge</i> [Pipewellgate/Oakwellgate] | |
| 14:45 – 15:00 | Deriving time-concordant event cascades from gene expression data: A case study for Drug-Induced Liver Injury (DILI) Anika Liu (University of Cambridge) | |
| 15:00 – 15:15 | Efficacy of a 12h intravenous acetylcysteine (SNAP) regimen in patients at high risk of hepatotoxicity following single acute paracetamol overdose. Amani Alrossies (Newcastle University) | |
| 15:15 – 15:30 | Simple and complex in vitro models of the gut and liver can support similarity assessment for grouping of nanoforms Victor Ude (Heriot-Watt University) | |
| 15:30 – 16:00 | <i>Refreshments, Posters & Trade Exhibition - Gateshead Foyer</i> BTS Poster Communications Judging | |
| 16:00 – 16:45 | Mid-Career Prize Lecture: The Accidental Toxicologist Dr Richard Currie (Syngenta) <i>Chair: Dr Jason Gill (Newcastle University)</i> [Pipewellgate/Oakwellgate] | |
| 16:45 – 17:30 | BTS Speciality Sub-Sections Discussions | |
| | Mechanistic and Discovery Toxicology Computational and In silico Toxicology Clinical and Human Toxicology [Pipewellgate/Oakwellgate] | Regulatory Toxicology Risk Assessment [Hillgate] |
| 17:30 – 18:30 | BTS: Paton Prize Lecture: How have new approaches built on historical studies in dermal toxicology? – insights in vitro Professor Faith Williams (Newcastle University) <i>Chair: Professor Brian Lake (University of Surrey)</i> [Pipewellgate/Oakwellgate] | |
| 19:00 – 19:30 | Delegate Networking and Congress Dinner Drinks Reception supported by Apconix <i>BALTIC Kitchen - Baltic Centre for Contemporary Art</i> | |
| 19:30 – Late | Congress Dinner & Entertainment <i>River Terrace - Baltic Centre for Contemporary Art</i> | |



The Royal Society of Chemistry Toxicology Group is proud to sponsor the 2022 BTS Annual Congress
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| WEDNESDAY 6th April 2022 | | |
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| 08:00 | Registration open <i>[Gateshead Foyer]</i> | |
| | Symposium 5: Health effects of environmental complex chemical mixtures: from toxic mechanisms to risk assessment <i>Chairs: Dr Francisco Inesta-Vaquera (University of Dundee) & Dr Carolin Schramm (UCB Pharma)</i> [Hosted by Mechanistic and Discovery Toxicology Speciality Section] <i>[Pipewellgate/Oakwellgate]</i> | Symposium 6: Microsampling in Toxicology: Maximising the scientific, business and 3Rs advantages <i>Chairs: Dr Fiona Sewell (NC3Rs) and Dr David Jones (Independent, ex-MHRA)</i> [Supported by NC3Rs] <i>[Hillgate]</i> |
| 09:00 – 09:30 | A Precision Environmental Health Framework for identifying chemical mixtures of concern. Dr Xiaojing Li (University of Birmingham, UK) | Preclinical to clinical use of microsamples – start small, stay small Dr Neil Spooner (Spooners Bioanalytical Solutions) Current use, 3Rs benefits and barriers for microsampling: results from a 2021 cross-sector Dr Helen Prior (NC3Rs) |
| 09:30 – 10:00 | DNA methylation as a reader of environmental exposure. Dr Sari Pennings (University of Edinburgh, UK) | Leveraging experience from small molecule microsampling towards large molecules and other drug modalities Dr Amanda Wilson (AstraZeneca, UK) Incorporating microsampling for agrochemical TK data to improve risk assessment Derek Angus (Syngenta, UK) |
| 10:00 – 10:30 | In vitro assays for biomonitoring of chemical mixtures in human tissues and blood Prof. Beate Escher (Centre for Env. Research, Germany) | Microsampling of main test animals with no detriment to clinical pathology parameters Carol Strepka (CRL, UK) Animal welfare benefits of microsampling for any purpose Hollie Blunt (Sequani, UK) |
| 10:30 – 10:45 | <u>Oral Communication:</u> Respiratory complex I inhibition coupled with electron scavenging initiates cell death by the methylimidazolium ionic liquid M8OI Dr Tarek Abdelghany | Symposium Reflection and Discussion |
| 10:45 – 11:00 | Symposium Reflection and Discussion | |
| 11:00 – 11:45 | Refreshments, Posters & Trade Exhibition <i>[Gateshead Foyer]</i> | |
| 11:45 – 12:30 | ASCEPT Invitation Lecture: Herbal risk: From Contamination to Polyherbacy Dr Ian Musgrave (University of Adelaide) <i>Chair: Dr Lesley Reeve (Labcorp)</i> <i>[Pipewellgate/Oakwellgate]</i> | |
| 12:30 – 13:15 | Lunch, Posters & Trade Exhibition <i>[Gateshead Foyer]</i> | |

| | <p>Symposium 7: Risk assessment in the 21st century: where are we heading? <i>Chairs: Dr Susy Brescia (HSE) & Frederique Marie Uy (FSA)</i> [Hosted by Risk Assessment Speciality Section] [Pipewellgate/Oakwellgate]</p> | <p>Symposium 8: “Nonclinical development of adeno-associated virus (AAV)-based gene therapy products” <i>Chairs: Catherine Ross (LabCorp) & TBC</i> [Hosted by BSTP] [Supported by UCB] [Hillgate]</p> |
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| 13:15 – 13:45 | <p>A 10-step framework for Next Generation Risk Assessment applying New Approach Methods: principles and case-studies in cosmetics safety evaluation Dr Camilla Alexander-White (MKTox & Co, UK)</p> | <p>Introduction to in vivo gene therapy [online] Dr Julie Hutt (Greenfield Pathology Services, USA)</p> |
| 13:45 – 14:15 | <p>QIVIVE (quantitative in vitro-in vivo extrapolation) – bridging in vitro POD using PBK modelling. A case study Dr Hequn Li (Unilever, UK)</p> | <p>Pathology considerations for AAV-based gene therapy products [online] Dr Brad Bolon (GEMpath, USA)</p> |
| 14:15 – 14:45 | <p>Integration of AOPs and computational models in chemical safety assessment Dr Alex Cayley (Lhasa, UK)</p> | <p>Risk-based preclinical safety assessment for AAV-based gene therapy products [online] Dr Basel Assaf (Sanofi, USA)</p> |
| 14:45 – 15:00 | Symposium Reflection and Discussion | Symposium Reflection and Discussion |
| 15:00 - 15:15 | <p>Close of Congress BTS President: Prof Brian Lake (University of Surrey) [Pipewellgate/Oakwellgate]</p> | |