

This Congress is supported by donations or purchase of exhibition space by the companies listed in the Congress App. This support is limited to meeting the cost of the Congress, with no input into the scientific programme. Whilst the overall programme has been designed based on the principles of Equality, Diversity and Inclusion, depending on the symposia that delegates select to attend, some imbalance from an EDI perspective may be apparent.

Day 1 – Monday 27th April

09:00 – **Registration open for Continuing Education Programme and Congress delegates | Park Suite Foyer**
Light breakfast items available

10:00 – 12:00 **Continuing Education Programme**
Communication in Toxicology – Translating Science for Society | Brueton Suite

Chairs: Helen Nakeeb (UKHSA) and Rachel Bowsher (UKHSA, BTS NEST representative)

10:00 – 10:10 Session overview and aims

10:10 – 10:40 Science in the headlines – Fiona Fox (Science Media Centre)

10:40 – 11:05 Transparency and trust: Talking about animal research – Wendy Jarrett (Understanding Animal Research)

11:05 – 11:30 Case studies in public health communication – Robie Kamanyire (UKHSA)

11:30 – 11:50 Interactive panel and discussion (Chairs and speakers)

11:50 – 12:00 CEP reflection

11:00 – 12:00 **BTS Scientific Subcommittee meeting | The Eversfield**
Open to SSC members only

12:00 – 13:00 **Lunch & trade exhibition | Park Bar & Park Suite Foyer**
Poster viewing | Gloucester Suite

13:00 – 13:20 **Congress opening | Brueton Suite**
Including presentation of the President's Award and recognition of new Fellows and Honorary Fellows of the BTS.

Phil Botham (Syngenta)

13:20 – 14:00 **Plenary lecture | Brueton Suite**

From black boxes to biological logic: AI for safer chemicals – Dario Greco (Tampere University, Finland)

Chair: Phil Botham (Syngenta)

14:00 – 14:30 **Kevin Park Award lecture | Brueton Suite**
This award recognises an outstanding contribution to toxicology by a mid-career member of the Society.

Harnessing trained innate responses for therapy – Neill Liptrott (University of Liverpool)

Chair: Ian Copple (University of Liverpool)

14:30 – 15:00 **Refreshments & trade exhibition | Park Bar & Park Suite Foyer**
Poster viewing | Gloucester Suite

15:00 – 17:00 Symposium 1 – Transgenerational toxicological effects in humans | Brueton Suite

Hosted by the Clinical & Human Toxicology speciality section

Chairs: Mat van de Pette (UKHSA) and Eren Ozcagli (UKHSA)

15:00 – 15:30 Transgenerational effects following in utero murine exposure to an emerging pharmaceutical – Sophie Storrar (UKHSA/University of Cambridge)

15:30 – 16:00 Understanding multigenerational impacts of exposure to chemical mixtures using a translational animal model – Michelle Bellingham (University of Glasgow)

16:00 – 16:30 The molecular mechanisms and biological impacts of epigenetic transgenerational inheritance – Mike Skinner (Washington State University, USA) **VIRTUAL**

16:30 – 16:45 Symposium reflection and discussion

16:45 – 17:00 Flash poster presentations:

P36: Integrating lethality and behaviour in a single assay for rapid and accurate acute toxicity estimation: a study on bisphenol A toxicity in *Artemia salina* - Maklas Al Marshoudi (University of Reading)

P39: Chronic polyethylene terephthalate nanoplastics ingestion triggers genotoxic and immune responses disrupting gut and systemic homeostasis - Aswin Kuttykattil (University of Manchester)

P41: Heat-treated polytetrafluoroethylene nanoplastics are associated with chronic colon inflammation in mice - Aswin Kuttykattil (University of Manchester)

Symposium 2 – AI in action: Bridging theory and practice | Malvern Suite

Hosted by the Computational & In Silico Toxicology speciality section

Chairs: Ciarán Fisher (GSK) and Alex Cayley (Lhasa)

Reliability assessment using AI tools: Is it reliable? – Anna Sonnenburg (German Federal Institute for Risk Assessment)

From O-QT to ToxMCP: Auditable AI agents and interoperable workflows for computational toxicology – Ivo Djidrovski (Utrecht University, the Netherlands)

AI-augmented target safety assessment: Enhancing human judgement without the hype – Josh Almond-Thynne (Sable Biotechnology)

Symposium reflection and discussion

Flash poster presentations:

P11: Canine sensitivity to drug-induced seizures: in silico-driven mechanistic insights - Aina Mogas Barcons (ApconiX)

P25: AI vs. SEND: The smartest shortcut or a regulatory disaster waiting to happen? - Frances Hall (Instem)

P66: Integrating toxicological science with user-centred design: developing a public chemical risk information resource - Helen Nakeeb (UKHSA)

17:00 – 17:45 **Poster viewing and judging | Gloucester Suite**

Judges will visit posters to talk to presenters eligible for the student and early career prizes about their work.

17:45 – 18:45 **BTS Annual General Meeting | Brueton Suite**

Open to all BTS members, the AGM is your opportunity to learn about the Society's activities and strategy, ask questions of the Society's leadership and help shape the future of the Society.

18:45 – 21:00 **Drinks reception | Park Bar**

Chat with old contacts and make new ones. BTS Executive Committee members will be identified by their congress badges and approachable by all members to ask questions and make suggestions – it's your Society!

19:30 – 21:00 **Networking session – Hazard Ahead! | Malvern Suite**

A fast-paced game of toxic connections... play, connect and compete over puzzles, food and fun! Hosted by the BTS Network for Early Stage Toxicologists (NEST). Open to all delegates at no additional cost. Food and drinks will be provided. A great opportunity to expand your network. Prizes on offer for the best team!

Day 2 – Tuesday 28th April

08:00 – **Registration open for Congress delegates | Park Suite Foyer**

08:15 – 08:45 **BTS Ambassadors meeting | The Eversfield**
Open to current Ambassadors, those interested in becoming an Ambassador, and those curious about the Ambassadors scheme and its goals.

09:00 – 11:00 Symposium 3 – New science-based approaches for hazard characterisation and classification | Brueton Suite

Hosted by the Regulatory Toxicology speciality section

Chairs: Phil Botham (Syngenta / Regulatory Science Associates) and Fiona Sewell (NC3Rs)

09:00 – 09:30 Carcinogenicity – John Doe (Liverpool John Moores University)

09:30 – 10:00 Repeat dose toxicity – Heli Hollnagel (Dow Europe, Switzerland)

10:00 – 10:30 Endocrine disruption – Helen Tinwell (Bayer Crop Science, France)

10:30 – 10:45 Symposium reflection and discussion

10:45 – 11:00 Flash poster presentations:

P38: Effects of elevated systemic L-tyrosine levels on thyroid parameters in Han Wistar rats - Barbara Kubickova (Syngenta)

P42: Evaluating OECD TG 492B performance for single chemicals and agrochemical formulations: gaps in ocular hazard prediction - Ana Ferragut (Syngenta)

P50: Refining GreenScreen® hazard assessment criteria for carcinogenicity and developmental and reproductive toxicity endpoints - Margaret Whittaker (ToxServices LLC)

Symposium 4 – Safety of advanced therapeutic modalities | Malvern Suite

MRC Integrated Toxicology Training Partnership biennial symposium, hosted in collaboration with the Mechanistic & Discovery Toxicology speciality section

Chairs: Kirsti Hornigold (MRC Toxicology Unit), Marion MacFarlane (MRC Toxicology Unit) and Nic Coltman (ApconiX)

Safety considerations for the development of cereblon-recruiting targeted protein degraders – James Sidaway (ApconiX / HESI Working Group for the Safety of Targeted Protein Degraders)

How to drug the undruggable: the advent of targeted protein degraders and their safety assessment – Monica Rodrigo (AstraZeneca)

Mechanisms underpinning antisense oligonucleotide toxicity – Ritwick Sawarkar (MRC Toxicology Unit)

Symposium reflection and discussion

Flash poster presentations:

P13: Navigating non-clinical safety and regulatory frameworks for advanced therapy medicinal products (ATMPs) - Parto Toofan (Cell & Gene Therapy Catapult)

P30: Building regulatory confidence in liver MPS: The 3Rs Collaborative & FDA-CDER's cross-platform DILI project - Emily Richardson (CN Bio Innovations)

P47: Ecotoxicological assessment of cigarette filter waste using Daphnia - Anne Leung (Dublin City University)

11:00 – 11:30 **Refreshments & trade exhibition | Park Bar & Park Suite Foyer**
Poster viewing | Gloucester Suite

11:30 – 12:15 **Paton Prize lecture | Brueton Suite**
This award celebrates a distinguished leader in toxicology, safety science and associated disciplines.

Translational drug safety: Challenges and opportunities – Ruth Roberts (ApconiX / University of Birmingham)

Chair: Tim Gant (UKHSA/Imperial College London)

12:15 – 12:45 **Poster viewing and judging | Gloucester Suite**

Judges will visit posters to talk to presenters eligible for the student and early career prizes about their work.

12:45 – 13:45 **Lunch & trade exhibition | Park Bar & Park Suite Foyer**
Poster viewing | Gloucester Suite

13:00 – 13:30
**Sponsored lunchtime
symposium 1 | Brueton Suite**

Development of human iPSC-derived hepatocytes for drug discovery, translational research and toxicity testing – Bit.Bio

Please collect your lunch from the Park Bar and bring it with you to the symposium.

13:00 – 13:30
**Sponsored lunchtime
symposium 2 | Malvern Suite**

Advancing genotoxicity and carcinogenicity assessment: The current and future role of NAMs – Charles River Laboratories

Please collect your lunch from the Park Bar and bring it with you to the symposium.

13:45 – **Oral communications**

15:00 *Hosted by the BTS Network for Early Stage Toxicologists (NEST) and early career members. These sessions showcase the top ranked abstracts covering a variety of research topics. All welcome!*

Oral communications session 1 | Brueton Suite

Chairs: Barbara Kubickova (Syngenta) and Mesha Williams (Unilever)

13:45 – 13:57 Physiochemical determinants of microplastic toxicokinetics and toxicity in alveolar cell models - Jenny Katsouli (UKHSA / Imperial College London)

13:57 – 14:09 Reassessing the role of in vivo fish testing in chemical risk assessment - Richa Malik (King's College London)

14:09 – 14:21 Human precision-cut liver slices as a platform for identifying biomarkers of the NRF2 oxidative stress response - Robert Young (University of Liverpool)

14:21 – 14:33 Evidence to support a single-species approach in later-development studies for small molecules - Elisa Passini (NC3Rs)

14:33 – 14:45 Unravelling the mechanisms of nucleic acid therapeutics toxicity in healthy and diseased cardiac models - Marguerite Colin (MRC Toxicology Unit)

14:45 – 14:57 A quantitative systems toxicology approach to understand factors influencing susceptibility to drug induced oxidative stress - Olivia Harris (University of Liverpool)

Oral communications session 2 | Malvern Suite

Chairs: Emma Quartermain (UKHSA) and Johanna Haszczyk (Defence Science and Technology Laboratory)

13:45 – 14:00 Human antidepressant duloxetine interferes with conserved gut bacterial RNA-binding proteins to induce toxicity - Xiaoteng Jiang (MRC Toxicology Unit)

14:00 – 14:15 Capturing the critical aspects of skin responses to redefine skin irritant testing - Rosalind Hannen (Queen Mary University London)

14:15 – 14:30 Transcriptomic sequencing of liver microtissues reveals species- and structure-dependent drug-induced adverse liver responses - Maria Vittoria Colombo (InSphero)

14:30 – 14:45 Evaluation of spatial transcriptomics for investigative toxicology studies - Klio Maratou (GSK)

14:45 – 15:00 Multi-omics analysis reveals CDK9 inhibition drives hepatic dysregulation through transcriptional suppression of hepatobiliary transporters - Niall Buckley (MRC Toxicology Unit / AstraZeneca)

15:00 – 15:30 **Refreshments & trade exhibition | Park Bar & Park Suite Foyer**
Poster viewing | Gloucester Suite

15:30 – 17:30	<p>Symposium 5 – ‘Omics technologies taking risk assessment into the 21st century Brueton Suite</p> <p><i>Hosted by the Risk Assessment speciality section</i></p> <p>Chairs: Susy Brescia (Health & Safety Executive) and Georgia Reynolds (Unilever)</p>	15:30 – 17:30	<p>Study Director Workshop Malvern Suite</p> <p><i>Focusing on practical approaches to real-life challenges faced by Study Directors and Study Monitors during nonclinical study conduct.</i></p> <p>Chairs: Warren Harvey (ICON Drug Development Solutions) and Keal Gracey (Labcorp)</p>
15:30 – 15:55	‘Omics technologies: Setting the scene – Mark Viant (University of Birmingham)	15:30 – 16:00	The use of NAMs to derisk drug induced liver injury in early discovery – Julie Eakins (Cyprotex)
15:55 – 16:20	Applying metabolomics: Insights from a case study and future directions – Hennie Kamp (German Federal Institute for Risk Assessment)	16:00 – 16:30	Advancing respiratory tract cell culture NAM models for risk-based decision making - Joanne Wallace (Charles River Laboratories)
16:20 – 16:45	Applying transcriptomics: Insights from a case study and future directions – Giulia Callegaro (Universiteit Leiden, the Netherlands) VIRTUAL	16:30 – 17:00	Navigating intrathecal administration challenges across nonclinical species - Philippe Marino (ERBC)
16:45 – 17:10	Regulatory readiness of ‘omics technologies for chemical risk assessment: Opportunities and challenges – Tomasz Sobanski (European Chemicals Agency, Finland)	17:00 – 17:30	Justification for exclusion of dose formulations analysis from GLP compliant genetic toxicology studies - Eleanor Madders (Scantox)
17:10 – 17:30	Symposium reflection and discussion		

17:30 – **Removal of posters | Gloucester Suite**
Presenters to remove their posters. All posters remaining at the end of day 2 of the meeting will be discarded.

19:00 – 00:00 **Pre-dinner drinks reception | Park Bar**
Followed by Congress dinner, prize giving & entertainment | Brueton Suite

Day 3 – Wednesday 29th April

08:30 – **Registration open for Congress delegates | Park Suite Foyer**

09:30 – 11:15	<p>Symposium 6 – Towards practical application of next generation risk assessment for assuring environmental safety Brueton Suite</p> <p><i>Hosted by the Ecotoxicology speciality section in collaboration with SETAC UK</i></p> <p>Chairs: Natalie Burden (NC3Rs) and Audrey Pearson (Environment Agency)</p>	09:30 – 11:15	<p>Symposium 7 – Safety aspects of drug and device development for the treatment of diabetes Malvern Suite</p> <p><i>Hosted by the Translational Toxicology speciality section</i></p> <p>Chairs: Keith McLuckie (Cell & Gene Therapy Catapult) and Lucy Smith (CS Life Sciences)</p>
09:30 – 09:55	A framework for environmental NGRA with example case studies – Claudia Rivetti (Unilever)	09:30 – 10:00	Optimising islet transplantation in type 1 diabetes – Shareen Forbes (University of Edinburgh)
09:55 – 10:20	New pharma legislation as a regulatory sandbox: Unlocking NAMs for chemical safety assessment – Sam Maynard (AstraZeneca)	10:00 – 10:30	Glucowear: Non-invasive continuous glucose monitoring – Sabih Chaudhry (Afon Technology)

10:20 – 10:45	Integrating new approach methods for in vitro bioactivity, quantitative in vitro-in vivo extrapolation and exposure to support next generation risk assessment – Jon Arnot (Arnot Research and Consulting / University of Toronto, Canada)	10:30 – 11:00	Polymorphisms and the changing shape of DNA in the insulin gene – Zoe Waller (University College London)
10:45 – 11:00	Symposium reflection and discussion	11:00 – 11:15	Symposium reflection and discussion
11:00 – 11:15	Flash poster presentations: Highlighting selected posters on display at the joint BTS-SETAC UK workshop that follows the BTS Congress: Advancing fish-specific immunotoxicology through NAMs: Can non-immune Zebrafish cell lines detect drug-induced immunomodulation? - Gian Hobbs (King's College London) Leveraging probabilistic dose-response modelling to improve cross-species chemical safety assessment - Isabelle Kavanagh (University of Birmingham) Surveying regulatory ecotoxicology practices: Trends and 3Rs opportunities in Contract Research Organisations - Amy Marriott (NC3Rs)		

11:15 – 11:45 **Refreshments & trade exhibition | Park Bar & Park Suite Foyer**

11:45 – 12:45 **BTS Speciality Section discussions**
Open to all delegates – discussion of future activities and meeting topics, led by speciality section coordinators. Join one of the discussions if you are affiliated with a speciality section, interested in affiliation, or just curious!

Clinical and Human Toxicology section | The Eversfield
 Computational and In Silico Toxicology section | Gloucester 1
 Ecotoxicology section | Malvern Suite
 Mechanistic and Discovery Toxicology section | Drawing Room
 Regulatory Toxicology section | Brueton Suite
 Risk Assessment section | Gloucester 2
 Translational Toxicology section | Tolkien

12:45 – 13:15 **ASPET invitation lecture | Brueton Suite**
This lecture is given by a member of the American Society for Pharmacology & Experimental Therapeutics, selected by their Toxicology Division to network in the UK as part of the BTS-ASPET exchange scheme.

A critical evaluation of the role of ferroptosis in drug-induced liver injury – Hartmut Jaeschke (University of Kansas Medical Center, USA)

Chair: Neill Liptrott (University of Liverpool)

13:15 – 13:30 **Congress closing | Brueton Suite**
 Tim Gant (UKHSA/Imperial College London)

13:30 – **Lunch (to eat in or take away) | Park Bar**

13:30 – 18:00 **Joint BTS-SETAC UK satellite workshop – Science shaping regulation: Towards adoption of animal-free, exposure-driven approaches in UK chemical regulation | Malvern Suite**

*Programme and further details available [here](#). Please note spaces for this workshop are limited and a separate registration process will be used. Registration and attendance at the BTS Annual Congress **does not** guarantee a place at the workshop. Expression of interest deadline – Friday 30 January.*