

Sunday, 26 September 2021		
08h00–21h00	Congress registration	16h00–21h00 Exhibition
09h30–16h00	<b>Excursion and Workshop by Ellegaard Göttingen Minipigs</b>	
10h30–16h00	<b>Continuing Education Courses (CEC), including coffee &amp; lunch breaks</b>	
<b>10h30–16h00</b>	<p><b>CEC01</b>  <b>Thyroid hormones, brain development and toxicity testing</b>            Chairs: Marta Axelstad, Denmark, Manon Beekhuijzen, Netherlands and Barbara Demeneix, France</p> <p><b>Thyroid Hormone Action and Disruption During Development: pregnancy, brain and rat versus human.</b>            Barbara Demeneix, UMR 7221 Molecular Physiology and Adaptation (CNRS/MNHN), Paris, France</p> <p><b>Low thyroid hormone during pregnancy and consequences for child neurological development.</b>            Peter Taylor, Cardiff University, Cardiff, UK</p> <p><b>Safeguarding the thyroid system – developing an in vitro testing battery.</b>            Sharon Munn, European Commission, Joint Research Centre, Ispra, Italy</p> <p><b>Recommendations for the future: lessons learned from thyroid hormone determinations in OECD/ US EPA guideline studies.</b>            Abby Li, Exponent Inc., San Francisco, US</p> <p><b>Searching for an adverse effect endpoint in the developing brain.</b>            Louise Ramhøj, Technical University of Denmark, Kgs. Lyngby, Denmark</p> <p><b>Current guideline testing: what is still missing?</b>            Manon Beekhuijzen, Charles River, Den Bosch, Netherlands</p> <p><b>Panel Discussion</b></p>	
<b>10h30–16h00</b>	<p><b>CEC02</b>  <b>Advances in conducting systematic reviews for chemical assessment: automation, uncertainty assessment and synthesis.</b></p>	

	<p>Chairs: Andrew Rooney, US and Sebastian Hoffmann, Germany</p> <p><b>LECTURE: Global orientation to systematic review – successes, challenges, and preparing for next generation decision making on mechanistic data.</b> Elisa Aiassa, Assessment and Methodological Support Unit/ EFSA, Parma, Italy <b>HANDS ON ACTIVITY 1: PECO, Inclusion/Exclusion</b></p> <p><b>LECTURE: Automated and semi-automated approaches for literature searching, screening, and data extraction.</b> Vickie Walker, National Institute of Environmental Health Sciences, Research Triangle Park, US <b>HANDS ON ACTIVITY 2: Critical appraisal/Risk of Bias</b></p> <p><b>LECTURE: Synthesis, Certainty (GRADE), and qualitative integration of heterogeneous evidence.</b> Sebastian Hoffmann, Evidence-based Toxicology Collaboration (EBTC), Paderborn, Germany</p> <p><b>LECTURE: Quantitative evidence integration supporting toxicity value development and characterization of uncertainty.</b> Daniele Wikoff, ToxStrategies, Asheville, US <b>HANDS ON ACTIVITY 3: Evidence certainty/GRADE</b></p> <p><b>LECTURE: Conduct and reporting standards for systematic reviews in toxicology and risk assessment</b> Paul Whaley, Lancaster University, Lancaster Environment Centre, Lancaster, UK</p>
10h30–16h00	<p><b>CEC03</b> (subject to updates) <b>Lessons learned and future directions for toxicology in water safety and security.</b> Chairs: Heidi Foth, Germany and Elaine Faustman, US</p> <p><b>Water bodies and frame work for protection.</b> Heidi Foth, Martin Luther University, Institute of Environmental Toxicology, Halle (Saale), Germany</p> <p><b>Contamination in groundwater by overuse of fertilizers and implications for human health.</b> Speaker TBA</p> <p><b>Contamination pattern by pesticides in water.</b></p>

	<p>Aristidis Tsatsakis, University of Crete, Greece</p> <p><b>Arsenite in drinking water.</b> Louis Schiesari, University of Sao Paolo, Brazil</p> <p><b>Ecotoxicological assessment of pharmaceuticals and personal care products using predictive toxicology approaches.</b> Susanne Boutrup and Hans Sanderson DCE (NERI) - Department of Environmental Science, Denmark</p> <p><b>Dissipative use of lead a future risk for groundwater.</b> Thomas Schupp, FH Münster – University of Applied Sciences, Steinfurt, Germany</p> <p><b>Bromate in bathing water – a carcinogenic risk?</b> Speaker TBA</p> <p><b>Metagenomic approaches for surveillance and testing water.</b> Elaine M. Faustman, US</p>
<p><b>10h30–16h00</b></p>	<p><b>CEC04</b></p> <p><b>Inflammation as a mediator of toxic responses.</b> Chairs: Emanuela Corsini, Italy and Ron Tjalkens, US</p> <p><b>Inflammation as a mediator of toxic responses.</b> Marie Cumberbatch, Immune Insight, Alderley Park, UK</p> <p><b>The multiple facets of skin inflammation: from direct toxic insult to specific immune responses.</b> Marc Pallardy, Université Paris-Saclay, Châtenay-Malabry, France</p> <p><b>Innate immune inflammatory signaling in glial cells modulates chemical neurotoxicity.</b> Ron Tjalkens, Colorado State University, Fort Collins, US</p> <p><b>Evaluating cytokines in immunotoxicity testing.</b> Emanuela Corsini, University of Milan, Milan, Italy</p>

<p><b>10h30–16h00</b></p>	<p><b>CEC05</b> <b>Nanotoxicology</b> Chair: Ulla Vogel, Denmark</p> <p><b>Genotoxicity of nanomaterials.</b> Julia Catalán Rodríguez, Finnish Institute of Occupational Health, Helsinki, Finland</p> <p><b>Nanomaterial-induced inflammation, acute phase response and risk of cardiovascular disease.</b> Ulla Vogel, National Research Center of the Working Environment, Copenhagen, Denmark</p> <p><b>Toxicity of nanomaterial in the user-phase.</b> Anne Saber, National Research Center of the Working Environment, Copenhagen, Denmark</p> <p><b>In vitro-based high-throughput screening and toxicogenomics to support effective safety evaluation of engineered nanomaterials.</b> Penny Nymark, Karolinska Institutet, Institute of Environmental Medicine, Stockholm, Sweden</p>
<p><b>10h30–16h00</b></p>	<p><b>CEC06</b> <b>Toxicity assessment in drug development.</b> Chair: Stine Bartelt, Måløv, Denmark</p> <p><b>Challenging early target safety assessment strategies.</b> Jens Schuemann, Novartis Institute for BioMedical Research, Basel, Switzerland</p> <p><b>Phototoxicity of small molecules - from initial assessment to in vivo studies.</b> Allan Dahl Rasmussen, Lundbeck A/S, Valby, Denmark</p> <p><b>Effects of an FGF21 analogue on the female reproductive system.</b> Sophia Gry Moesgaard, Novo Nordisk A/S, Måløv, Denmark</p> <p><b>Reproductive Toxicology: impact on clinical trials/label.</b></p>

	<p>Michele Bouisset-Leonard, Novartis A/S, Basel, Switzerland</p> <p><b>PEGylated coagulation factor IX: The road to regulatory approval.</b> Hanne Offenbergh, Novo Nordisk A/S, Måløv, Denmark</p>		
16h00	<b>Opening of the exhibition</b>		
17h00–19h00	<p><b>Opening Ceremony</b> incl. <b>Keynote Lecture 01</b> and <b>EUROTOX Merit Award K01:</b> <b>Toxicology as a science of the known with visions of the unknown</b> Philippe Grandjean, University of Southern Denmark, Denmark and Harvard School of Public Health, Boston, US</p>		
19h00–21h00	<b>Welcome Reception</b>		
<b>Monday, 27 September 2021</b>			
07h30–18h30	Congress registration	07h30–08h00 Morning run	09h00–16h30 Exhibition
08h30–09h30	<p><b>Bo Holmstedt Memorial Fund Lecture</b> Shana Sturla, ETH Zürich, Zurich, Switzerland</p>		
09h30–10h00	<b>Coffee Break, Exhibition &amp; Poster Viewing 1</b>		
10h00–12h00	<p><b>Session 01 – Symposium</b> <b>The effect of chemicals on the gut microbiota: is it the cause of all problems?</b> Chairs: Reinhilde Schoonjans, Italy, and 2nd Chair TBA</p> <p><b>Gut microbiota and human health through lifespan.</b> Anne Salonen, University of Helsinki, Helsinki, Finland</p> <p><b>Dietary emulsifiers, human microbiota and intestinal inflammation.</b> Tom Van de Wiele, Ghent University, Ghent, Belgium</p> <p><b>Interactions of low calorie sweeteners with the gut microbiota and potential impact on health.</b> Ian Rowland, Reading University, Reading, UK</p>		

	<p><b>The role of diet on stability, resilience and modulation of the human gut microbiota.</b> Carmen Pelaez, Autonomous University of Madrid, Madrid, Spain</p>
10h00–12h00	<p><b>Session 02 – Symposium</b> <b>In vitro organotypic models for predicting the toxicity of chemicals or drugs.</b> Chairs: Saadia Kerdine-Römer, France and Lisbeth Knudsen, Denmark</p> <p><b>Predictive (diseased) 3D lung models to assess effects of aerosolized nanomaterials and nanodrugs.</b> Barbara Rothen Rutishauser, Université de Fribourg, Fribourg, Switzerland</p> <p><b>Advanced in vitro models for nephrotoxicity testing: as complex as possible, but simple in use.</b> Roos Masereeuw, Utrecht Institute for Pharmaceutical Sciences, Utrecht, Netherlands</p> <p><b>Human 3D brain model to study developmental neurotoxicity.</b> Marie-Gabrielle Zurich, Université de Lausanne, Lausanne, Switzerland</p> <p><b>Mini-gut organoids for therapeutic testing.</b> Nathalie Vergnolle, IRSD, Toulouse, France</p>
10h00–12h00	<p><b>Session 03 – Symposium</b> <b>Artificial intelligence and machine learning in chemical risk assessment.</b> Chairs: João Barroso, Italy, and Anne Marie Vinggaard, Denmark</p> <p><b>Systematic reviews and chemical risk assessment: current challenges, and the need for AI in overcoming them.</b> Paul Whaley, Lancaster University, Lancaster, UK</p> <p><b>Use of chemical informatics, quantum chemistry modelling and artificial intelligence algorithms to predict molecular initiating events.</b> Tim Allen, St. John's College, Cambridge, UK</p> <p><b>Machine learning in chemical risk assessment.</b> Eva Bay Wedeby, Technical University of Denmark, Kgs. Lyngby, Denmark</p>

	<p><b>Virtual physiological human.</b> Geris Liesbet, University of Liège, Liège, Belgium</p>
10h00–12h00	<p><b>Session 04 – Symposium</b> <b>Personalized nano-immunotoxicology for the workplace.</b> Chairs: Albert Duschl, Austria and Diana Boraschi, Italy</p> <p><b>Does immunotoxicity of nanomaterials depend on the individual pre-existing conditions? A need for a personalised testing strategy.</b> Diana Boraschi, National Research Council, Naples, Italy</p> <p><b>In vitro immune-nanotoxicological methods that take pre-existing conditions into account.</b> Albert Duschl, Salzburg University, Salzburg, Austria</p> <p><b>Assessing the immunological hazard of sub-chronically inhaled nanomaterials in normal and diseased lung models.</b> Martin Clift, Swansea University, Swansea, UK</p> <p><b>Impact of nanomaterials on haemodynamic parameters in normal and disease conditions.</b> Julie Laloy, Université de Namur, Namur, Belgium</p>
10h00–12h00	<p><b>Session 05 – Symposium</b> <b>The use of minipigs in juvenile studies in an evolving regulatory landscape.</b> Chairs: Andrew Makin, Denmark and Lars Friis Mikkelsen, Denmark</p> <p><b>Practical examples of the use of juvenile minipigs in testing drugs and foodstuffs to demonstrate safety for human children.</b> Andrew Makin, Andrew Makin Preclinical Consulting, Kokkedal, Denmark</p> <p><b>The minipig – a rising star for nonclinical safety testing in support of development of paediatric medicines.</b> Georg Schmitt, Roche Pharma, Basel, Switzerland</p> <p><b>The juvenile Göttingen minipig: role of organ development in view of food and drug safety in children.</b></p>

	Steven Van Cruchten, University of Antwerp, Antwerp, Belgium		
	<p><b>Early life nutrition and later life cardiometabolic health in Göttingen Minipigs.</b> Sietse Jan Koopmans, Wageningen UR Livestock Research, Wageningen, Netherlands</p>		
10h00–12h00	<p><b>Short Oral Communications I</b> <i>To be selected from submitted abstracts.</i></p>		
12h00–13h00	Lunch Break & <b>Exhibition</b>		
12h00–13h00	Lunch Industry Symposium	Lunch Industry Symposium	Lunch Industry Symposium
13h00–14h00	Poster Viewing 1		
14h00–15h00	<p><b>EUROTOX–SOT Debate</b> Alan Boobis (EUROTOX debater) and Syril Pettit (SOT debater)</p>		
15h00–15h30	Coffee Break, <b>Exhibition</b> & <b>Poster Viewing 1</b>		
15h30–17h30	<p><b>Session 06 – Symposium</b> <b>Human induced pluripotent stem cell (iPSC)-based test systems for future mechanism-based chemical safety testing.</b> Chairs: Catherine Verfaillie, Belgium and Marcel Leist, Germany</p> <p><b>iPSC-derived neurospheres for chemical safety assessment.</b> Andras Dinnyes, Biotalentum, Gödöllő, Hungary</p> <p><b>Multicellular 3D liver models based on hiPSC-derived liver cells.</b> Catherine Verfaillie, Leuven University, Leuven, Belgium</p> <p><b>Fluorescent reporter-based hiPSC test systems for mechanism-based safety assessment.</b> Bas ter Braak, Leiden Academic Centre for Drug Research, Leiden, Netherlands</p> <p><b>Nephrotoxic liability assessment using hiPSC-derived renal glomerular and proximal tubular epithelial cells.</b> Anja Wilmes, Free University Amsterdam, Amsterdam, Netherlands</p>		



<p>15h30–17h30</p>	<p><b>Session 07 – Roundtable</b>  <b>Setting the European Environment and Health Research Agenda, 2020-2030: the HERA project.</b>          Chairs: Robert Barouki, France and Manolis Kogevinas, Spain</p> <p><b>Identifying research gaps in environment and health research.</b>          Roel Vermeulen, Utrecht University, Utrecht, Netherlands and Annette Peters, Helmholtz Zentrum, Munich, Germany</p> <p><b>Stakeholder approach for identification of research needs of policy and practice in environment, climate and health.</b>          Brigit Staatsen, RIVM, Bilthoven, Netherlands</p> <p><b>Major environmental stressors and their effect on health: a global perspective.</b>          Julia Nowacki, WHO Regional Center, Bonn, Germany</p> <p><b>Infrastructure needs in the field of environment and health.</b>          Jana Klanova, Recetox, Brno, Czech Republic</p>
<p>15h30–17h30</p>	<p><b>Session 08 – Symposium</b>  <b>Back-translation from clinical outcomes, how did investigative toxicology, modelling and simulation actually perform?</b>          Chairs: Harrie C.M. Boonen, Denmark and François Pognan, Switzerland</p> <p><b>Application of modelling and simulation techniques to aid forward and back translation of safety endpoints.</b>          Teresa Collins, AstraZeneca, Cambridge, UK</p> <p><b>A case study of retrospective DILI liabilities based on in vitro data and exposure prediction.</b>          Thomas Steger-Hartmann, Bayer AG, Berlin, Germany</p> <p><b>Moving from detection of cardiovascular liabilities to quantitative mechanistic translational understanding: challenges and opportunities.</b>          Amy Pointon, AstraZeneca, Cambridge, UK</p> <p><b>In vitro rat and human GI organoid models for oncology candidate compounds assessment.</b>          Nicole Rathfelder, Novartis Pharma AG, Basel, Switzerland</p>

15h30–17h30	<p><b>Session 09 – Workshop</b>  <b>Increasing confidence in non-animal approaches for regulatory decision-making.</b>          Chairs: Suzanne Fitzpatrick, US and Fiona Sewell, UK</p> <p><b>Acceptance of in silico methods for regulatory purposes.</b>          Glenn Myatt, Leadscope, Columbus, US</p> <p><b>How metabolomics can inform chemical risk assessment.</b>          Tomasz Sobanski, ECHA, Helsinki, Finland &amp; Mark Viant, University of Birmingham, Birmingham, UK</p> <p><b>A new path for pesticide assessment: using the AOP framework as a tool in risk assessment.</b>          Susanne Hougaard Bennekou, Technical University of Denmark, Kgs. Lyngby, Denmark</p>
15h30–17h30	<p><b>Session 10 – Symposium</b>  <b>Computational modeling of AOP networks to assist risk assessment of chemicals.</b>          Chairs: Frederic Bois, UK and Joost Beltman, Netherlands</p> <p><b>Quantitative Bayesian networks analyses of mitochondrial toxicity.</b>          Frederic Bois, CERTARA Inc., Sheffield, UK</p> <p><b>Logic modeling of toxicity pathways.</b>          Attila Gabor, EMBL, Heidelberg, Germany</p> <p><b>Linking cellular stress pathway activity to cellular adversity through dynamic modeling.</b>          Joost Beltman, Leiden University, Leiden, Netherlands</p> <p><b>Virtual liver modeling.</b>          Dirk Drasdo, INRIA &amp; University of Leipzig, Paris &amp; Leipzig, France &amp; Germany</p>
15h30–17h30	<p><b>Short Oral Communications II</b>  <i>To be selected from submitted abstracts.</i></p>
17h30–18h30	<p><b>COVID-19 presentation (TBA)</b></p>

18h30–19h30	<b>Speciality Section Meetings</b>		
18h30–19h30	<b>Young Scientists Meeting</b>		
	<b>Social Reception (TBA)</b>		
<b>Tuesday, 28 September 2021</b>			
07h30–18h30	Congress registration	07h30–08h00 Morning run	09h00–16h30 Exhibition
08h30–09h30	<b>SOT Merit Award Lecture</b>		
09h30–10h00	<b>Coffee Break, Exhibition &amp; Poster Viewing 2</b>		
10h00–12h00	<p><b>Session 11 – Symposium</b>  <b>Emerging tools for the investigation and prediction of liver toxicity.</b>          Chairs: Mathieu Vinken, Belgium and Magnus Ingelman-Sundberg, Sweden</p> <p><b>ULA 3D spheroids as a tool for studying normal and diseased liver function and for prediction of drug pharmacokinetics and hepatotoxicity.</b>          Magnus Ingelman-Sundberg, Karolinska Institutet, Stockholm, Sweden</p> <p><b>Functional imaging of hepatotoxicity.</b>          Jan Hengstler, Leibniz Research Center (IfADo), Dortmund, Germany</p> <p><b>Dynamic imaging of stress response pathway activation for quantitative systems liver toxicity approaches.</b>          Bob van de Water, Leiden University, Leiden, Netherlands</p> <p><b>Using real time sensors to illuminate human-relevant mechanisms of action.</b>          Yaakov Nahmias, Silberman Institute of Life Sciences, Jerusalem, Israel</p>		
10h00–12h00	<p><b>Session 12 – Symposium</b>  <b>Application of high throughput transcriptomics in mechanism-based chemical safety assessment.</b>          Chairs: Hennie Kamp, Germany and 2nd Chair (TBA)</p>		

	<p><b>High throughput transcriptomics for determining chemical-induced perturbations to predict adverse renal outcomes.</b> Paul Jennings, Free University Amsterdam, Netherlands</p> <p><b>Early prediction of late adverse outcome using benchmark dose modelling of high throughput transcriptomics data.</b> Scott Auerbach, U.S. NIEHS/National Toxicology Program, Durham, US</p> <p><b>Transcriptomic profiling of the inter-individual variability of chemical-induced cellular stress response activation in primary human hepatocytes.</b> Marije Niemeijer, Leiden University, Leiden, Netherlands</p> <p><b>Genomics-based platforms in combination with machine learning algorithms enabling well informed and reliable risk assessments for different toxicological endpoints.</b> Andy Forreryd, SenzaGen, Lund, Sweden</p>
10h00–12h00	<p><b>Session 13 – Workshop</b></p> <p><b>Modes of action in non-genotoxic carcinogenesis.</b> Chairs: Jan Vondracek, Czech Republic and William H Bisson, US</p> <p><b>Developing an OECD integrated approach for the testing and assessment of non-genotoxic carcinogens.</b> Miriam Jacobs, Public Health England, Chilton, UK</p> <p><b>Cellular and newly proposed models to study the transforming ability of pollutants for translational toxicology and therapeutics.</b> William H Bisson &amp; Annamaria Colacci, OHSU Knight Cancer Institute &amp; ARPAE, Portland &amp; Bologna, US &amp; Italy</p> <p><b>Non-coding RNAs mechanisms enforcing oncogenic programs and allowing establishment of metastatic niches.</b> Martin Bushell, The Beatson Institute, Glasgow, UK</p>

<p>10h00–12h00</p>	<p><b>Session 14 – Symposium</b>  <b>New approaches using in vitro assays and 3D models can improve prediction of immune reactions to xenobiotics.</b>          Chairs: Marc Pallardy, France and Saadia Kerdine-Römer, France</p> <p><b>Immune response to chemicals and drugs: understanding is key for prediction.</b>          Marc Pallardy, University Paris-Sud, Châtenay-Malabry, France</p> <p><b>How mechanisms can be used to develop new approaches to predict drug-induced hypersensitivity.</b>          Dean Naisbitt, University of Liverpool, Liverpool, UK</p> <p><b>The challenges of predicting biological products immunogenicity using T-cell assays.</b>          Bernard Maillère, University of Paris Saclay, Paris, France</p> <p><b>Challenges and opportunities of 3D-skin models: the way forward for assessing chemical sensitizers?</b>          Sue Gibbs, Amsterdam University Medical Center, Amsterdam, The Netherlands</p>
<p>10h00–12h00</p>	<p><b>Session 15 – Symposium</b>  <b>Impact of climate change on food safety</b>          Chairs: Angela Mally, Germany and George Kass, Italy</p> <p><b>The impact of climate change on mycotoxin and related fungi risks in Europe: current scenario and future perspectives.</b>          Antonio Moretti, Institute of Sciences of Food Production, National Research Council, Bari, Italy</p> <p><b>Climate change impacts on harmful algal bloom toxicity.</b>          Dedmer van de Waal, Netherlands Institute of Ecology (NIOO-KNAW), Wageningen, Netherlands</p> <p><b>Ocean warming and Ciguatera poisoning.</b>          Elisa Berdalet, Institute of Marine Sciences (ICM-CSIC), Barcelona, Spain</p> <p><b>Tetrodotoxins in seafood from European waters.</b>          Ron Hoogenboom, RIKILT Wageningen University &amp; Research, Wageningen, Netherlands</p>

10h00–12h00	<b>Industry Symposium</b>		
12h00–13h00	<b>Lunch Break &amp; Exhibition</b>		
12h00–13h00	<b>Lunch Industry Symposium</b>	<b>Lunch Industry Symposium</b>	<b>Lunch Industry Symposium</b>
13h00–14h00	<b>Poster Viewing 2</b>		
14h00–15h00	<b>HESI Lecture</b>		
15h00–15h30	<b>Coffee Break, Exhibition &amp; Poster Viewing 2</b>		
15h30–17h30	<p><b>Session 16 – Symposium</b>  <b>Human microengineered organs-on-chips: advancing regulatory science through innovation.</b>          Chairs: Suzanne Fitzpatrick, US and Adrian Roth, Switzerland</p> <p><b>Organs-on-chips for safety testing and disease modeling.</b>          Geraldine A. Hamilton, Emulate Inc., Boston, US</p> <p><b>Human on a chip – are we there yet?</b>          Uwe Marx, TissUse GmbH, Berlin, Germany</p> <p><b>Integrating organ on a chip into an IATA.</b>          Sofia Batista Leite, European Commission's Joint Research Centre, Ispra, Italy</p> <p><b>An industry perspective: importance of organs-on-chips for advancing drug discovery and development.</b>          Adrian Roth, Roche Pharma, Basel, Switzerland</p>		
15h30–17h30	<p><b>Session 17 – Symposium</b>  <b>Designing toxicology studies to support development of cell-based therapies.</b>          Chairs: Niklas Öhrner, Novo Nordisk, Denmark, and 2nd Chair (TBA)</p> <p><b>Regulatory Considerations for Cell Based Therapies.</b>          David Jones, MHRA, UK</p>		

	<p><b>Non-clinical study design considerations in the development of cellular therapeutics.</b> Mark Johnson, Charles River, Mattawan, US</p> <p><b>Preclinical assessment of a pluripotent cell therapy for Parkinson's Disease.</b> Agnete Kirkeby, Lund University, Lund, Sweden</p> <p><b>A stepping stone to cure type 1 diabetes.</b> Dorthe Bach Toff, NovoNordisk, Måløv, Denmark</p>
15h30–17h30	<p><b>Session 18 – Symposium</b> <b>Mechanistic toxicology as the basis for modelling and prediction of organ-specific toxicity.</b> Chairs: Anna Bal-Price, Italy and Ulla Vogel, Denmark</p> <p><b>Applying the adverse outcome pathways network for understanding and predicting neurotoxicity.</b> Anna Bal-Price, European Commission Joint Research Centre, Ispra, Italy</p> <p><b>Application of the adverse outcome pathway conceptual framework for translation of mechanistic data into regulatory decisions: adverse outcome pathways for kidney injury as case study.</b> Angela Mally, University of Würzburg, Würzburg, Germany</p> <p><b>Novel means of enabling high-throughput toxicogenomics and adverse outcome pathways for prediction of lung toxicity.</b> Penny Nymark, Karolinska Institute, Stockholm, Sweden</p> <p><b>Development and application of an adverse outcome pathway of cholestatic liver injury.</b> Mathieu Vinken, Vrije Universiteit Brussels, Brussels, Belgium</p>
15h30–17h30	<p><b>Session 19 – Workshop</b> <b>Can we panelize seizure?</b> Chairs: Ruth Roberts, UK and Jennifer Pierson, US</p>

	<p><b>Seizure liability in drug discovery and development.</b> Jean-Pierre Valentin, UCB, Braine-l'Alleud, Belgium</p> <p><b>Using ion channels to panelize seizure: where are we up to?</b> Mike Morton, ApconiX, Alderley Park, UK</p> <p><b>Development of seizure prediction methods using in vitro microelectrode array (MEA).</b> Ikuro Suzuki, Tohoku Institute of Technology, Sendai, Japan</p> <p><b>Panel Discussion focusing on key questions: confidence in the biology, confidence in the robustness of the assay and confidence in translation to the clinic and the patient.</b> All speakers</p>
15h30–17h30	<p><b>Session 20–Symposium</b> <b>Modernizing Cancer Risk Assessment: Beyond the Bioassay.</b> Chairs: Gina Hilton, UK and Mirjam Luijten, Netherlands</p> <p><b>Current challenges in a paradigm shift for cancer risk assessment.</b> Alan Boobis, Imperial College London, UK</p> <p><b>Utility of new approach methods to safely assess cancer risk.</b> Virunya Bhat, NSF International, US</p> <p><b>Practical strategies for a weight of evidence-based safety assessment.</b> Jan Willem van der Laan, Netherlands Organization for Applied Scientific Research (TNO), Zeist, Netherlands</p> <p><b>Visioning a risk assessment without the rodent bioassay.</b> Mirjam Luijten, RIVM, Netherlands</p>
15h30–17h30	<p><b>Industry Symposium</b></p>
19h30–0h00	<p>Congress Dinner at Langelinie Pavillon</p>



<b>Wednesday, 29 September 2021</b>		
08h00–13h00	Congress registration	09h00–12h00 Exhibition
<b>08h30–09h30</b>	<p><b>Keynote Lecture 02</b>  <b>“Genetics load the gun, but environment pulls the trigger” – the human early-life exposome</b>            Martine Vrijheid, ISGlobal, Barcelona, Spain</p>	
<b>09h30–11h30</b>	<p><b>Session 21 – Symposium</b>  <b>Drug – exposome interactions.</b>            Chairs: Benedikt Warth, Austria and Angela Mally, Germany</p> <p><b>The exposome: drugs, toxicants, and metabolites.</b>            Gary W. Miller, Columbia University, New York City, US</p> <p><b>Impact of dietary xenoestrogens and other food contaminants on drug metabolism and action.</b>            Benedikt Warth, University of Vienna, Vienna, Austria</p> <p><b>The Central European Longitudinal Studies of Parents and Children (CELSPEC) from an exposome perspective.</b>            Jana Klánová, Masaryk University, Brno, Czech Republic</p> <p><b>Biotransformation-driven interactions and precision responses to chemotherapy.</b>            Shana Sturla, ETH Zurich, Zurich, Switzerland</p>	
<b>09h30–11h30</b>	<p><b>Session 22 – Symposium</b>  <b>Computational models to reliably predict chemical mixture toxicity.</b>            Chairs: Aristidis Tsatsakis, Greece and Michael Aschner, US</p> <p><b>Neurodegenerative effects of metal mixtures: the search for biomarkers of exposure and outcome.</b>            Michael Aschner, Albert Einstein College of Medicine, New York, US</p> <p><b>Systems toxicology models for the development of AOP networks induced by exposure to complex mixtures.</b></p>	

	<p>Denis Sarigiannis, University School of Advanced Studies IUSS, Pavia, Italy</p> <p><b>Computational modelling: A new paradigm for chemical mixtures risk assessment?</b> Antonio F. Hernandez, University of Granada School of Medicine, Granada, Spain</p> <p><b>PBPK modelling: Bridging animal-free toxicology tools and conventional in vivo testing for cumulative risk assessment after long-term-low-dose exposure to chemical mixtures.</b> Marina Goumenou, University of Crete Medical School, Heraklion, Greece</p>
09h30–11h30	<p><b>Session 23 – Symposium</b> <b>The value of micro-physiological systems for drug safety assessment – a series of case studies</b> Chairs: Ekaterina Breous-Nystrom, Switzerland and Thomas Steger-Hartmann, Germany</p> <p><b>Immune-competent microphysiological system to recapitulate antibody-induced organ damage in cancer immunotherapies.</b> Adrian Roth, Roche, Basel, Switzerland</p> <p><b>A microfluidic two-organ chip to investigate species specific differences of thyroid-liver crosstalk in human and rats.</b> Diana Karwelat, Bayer AG, Berlin</p> <p><b>The importance of patient-centricity to improve the productivity of organ-chip models.</b> Lorna Ewart, Emulate, London, UK</p> <p><b>In vitro rat and human GI organoid models for oncology candidate compounds assessment.</b> François Pognan, Novartis Pharma AG, Basel, Switzerland</p>
09h30–11h30	<p><b>Session 24 – Symposium</b> <b>Building confidence in the use of New Approach Methodologies for safety decision-making.</b> Chairs: Alistair Middleton, UK and Ans Punt, Netherlands</p> <p><b>Strategies to develop and apply integrated in vitro-in silico PBPK models in next generation risk assessment.</b> Ans Punt, RIKILT Wageningen University and Research, Wageningen, Netherlands</p>

	<p><b>In silico approaches to link adverse outcomes to molecular initiating events through AOPs.</b> Oliveira Anax, Lhasa Limited, Leeds, UK</p> <p><b>Strategic Use of High-Throughput Transcriptomics and Phenotypic Profiling Data in Support of Regulatory Decisions.</b> Joshua Harrill, US EPA NCCT, Research Triangle Park, US</p> <p><b>An industry perspective on strategies for integrating new approach methodologies for next generation risk assessment: coumarin as a case study.</b> Maria Baltazar, Unilever Safety and Environmental Assurance Centre, Bedford, UK</p>
09h30–11h30	<p><b>Session 25 – Symposium</b> <b>Safeguarding female reproductive health across disciplines.</b> Chairs: Julie Boberg, Denmark and Paul Fowler, UK</p> <p><b>Effects of early EDC exposure on female rat reproductive development.</b> Hanna KL Johansson, Technical University of Denmark, Kgs. Lyngby, Denmark</p> <p><b>Reproductive toxicity in wildlife.</b> Alan Vajda, University of Colorado, Denver, US</p> <p><b>Influence of EDCs on female puberty – evidence from human epidemiology.</b> Anders Juul, Copenhagen University Hospital, Copenhagen, Denmark</p> <p><b>EDCs and female fertility – what can we learn from human clinical samples?</b> Pauliina Damdimopoulou, Karolinska University Hospital, Stockholm, Sweden</p>
11h30–12h00	<p><b>Coffee Break &amp; Exhibition</b></p>
12h00–14h00	<p><b>Session 26 – Symposium</b> <b>Computational Toxicology - New Advances and Acceptance in Academia, Industry and Regulation.</b> Chairs: Timothy Allen, UK and Ruth Roberts, UK</p>

	<p><b>Developing and Assessing In Silico Profilers for Organ-Level Toxicity Using Non-Standard Data.</b> Mark Cronin, Liverpool John Moores University, Liverpool, UK</p> <p><b>In Silico Toxicology - what computational tools can (and cannot) do.</b> Andreas Bender, University of Cambridge, Cambridge, UK</p> <p><b>Industrial perspectives on in silico tools - early screening to regulatory applications.</b> Catrin Hasselgren, Genentech, San Francisco, US</p> <p><b>Open source computational Toxicology tools in food and feed safety: Integrating historical data, meta-analysis and species-specific generic models.</b> Jean-Lou Dorne, EFSA, Parma, Italy</p>
12h00–14h00	<p><b>Session 27 – Symposium</b></p> <p><b>Predictive systems to identify etiological factors and pathogenic mechanisms of neurodegeneration.</b> Chairs: Jonathan Doorn, US and Jason Cannon, US</p> <p><b>Translation of mechanistic data into in vivo systems to predict risk for neurodegeneration.</b> Jason Cannon, Purdue University, West Lafayette, US</p> <p><b>Altered neurotransmitter homeostasis as a mechanistic biomarker of neurotoxicity progressing to neurodegeneration.</b> Jonathan Doorn, University of Iowa, Iowa City, US</p> <p><b>Application of an adverse outcome pathway-based in vitro testing battery for neurotoxicity evaluation.</b> Ellen Fritsche, IUF-Liebniz Research Institute for Environmental Medicine, Düsseldorf, Germany</p> <p><b>In vitro neurotoxicity test methods: from development to degeneration.</b> Remco Westerink, Utrecht University, Utrecht, Netherlands</p>

<p>12h00–14h00</p>	<p><b>Session 28 – Symposium</b>  <b>Preclinical immune-safety evaluation of immuno-oncology therapies.</b>          Chairs: Curtis Maier, US, and 2nd Chair (TBA)</p> <p><b>Current nonclinical evaluation of immune-related safety risks for IO biopharmaceuticals.</b>          Simon Chivers, Integrated Biologix, UK</p> <p><b>Current nonclinical evaluation of immune-related safety risks for engineered T cell therapies.</b>          Hervé Lebrech, AMGEN, US</p> <p><b>Clinical immune-related adverse events.</b>          Nathalie Chaput-Gras, University Paris-Sud Institut Gustave Roussy, Châtenay-Malabry &amp; Villejuif, France</p> <p><b>Regulatory considerations and establishing FIH dose across immunomodulators.</b>          Gabriele Reichmann, Paul-Ehrlich-Institut, Langen, Germany</p>
<p>12h00–14h00</p>	<p><b>Session 29 – Symposium</b>  <b>Is there a human risk to PFAS exposure?</b>          Chairs: Philippe Grandjean, Denmark, and 2nd Chair</p> <p><b>Health effects and mechanisms of action of fluorinated chemicals – an overview.</b>          Anne Marie Vinggaard, Technical University of Denmark, Kgs. Lyngby, Denmark</p> <p><b>Epidemiological approaches to PFAS toxicity.</b>          Philippe Grandjean, University of Southern Denmark &amp; Boston University, Odense &amp; Boston, Denmark &amp; US</p> <p><b>Risk to PFAS in the human population – bioassay testing of PFAS mixtures in human blood.</b>          Eva Bonefeld-Jørgensen, University of Aarhus, Aarhus, Denmark</p> <p><b>Wide-spread PFAS contamination of drinking water in Sweden – exposure and health risk assessment.</b>          Anders Glynn, SLU, Uppsala, Sweden</p>

<p><b>12h00–14h00</b></p>	<p><b>Session 30 – Symposium</b></p> <p><b>Revisiting paracetamol-induced multisystem toxicity: Novel mechanistic insights</b> Chairs: Hilmi Orhan, Turkey and Hartmut Jaeschke, US</p> <p><b>Paracetamol hepatotoxicity: Discovering new drugs based on mechanistic insight from animal studies.</b> Hartmut Jaeschke, University of Kansas Medical Center, Kansas City, US</p> <p><b>Paracetamol-associated adverse reactions in kidney: different mechanistic pathways compared to liver.</b> Hilmi Orhan, Ege University, Izmir, Turkey</p> <p><b>Paracetamol and pregnancy: short- and long-term consequences for mother and child.</b> Gisa Tiegs, University Medical Center Eppendorf, Hamburg, Germany</p> <p><b>Paracetamol and development – reasons for concern.</b> David Kristensen, University of Copenhagen &amp; Inserm, Irset, Copenhagen &amp; Rennes, Denmark &amp; France</p>
<p><b>14h00–14h30</b></p>	<p><b>Closing Ceremony and Awards presentation</b></p>