

Sunday, September 8, 2019	
08h00–21h00	Congress registration 16h00–21h00 Exhibition
09h30–16h00	Satellite Meeting by ECETOC “Hazard Identification, Classification and Risk Assessment of Carcinogens: Too Much or Too Little?” <i>(Attendance is free of charge but an additional registration is required)</i>
10h30–16h00	Continuing Education Courses (CEC), including coffee & lunch breaks
10h30–16h00	CEC1 Development and evaluation of AOPs Chairs: Sharon Munn, Italy Bette Meek, Canada AOP Background and Principles Sharon Munn, European Commission, DG JRC, Italy AOP wiki and live demonstration Clemens Wittwehr, European Commission, DG JRC, Italy Weight of Evidence/Confidence Evaluation for AOPs Bette Meek, University of Ottawa, Canada Application of AOPs to consider biological plausibility of associations observed in epidemiological studies: exposure to pesticides and Parkinson's disease Andrea Terron, European Food Safety Authority, Italy Application of AOPs for the development of Defined Approaches (DA) and Integrated Approaches to Testing and Assessment (IATA) Gavin Maxwell, Unilever, UK
10h30–16h00	CEC2 Application and integration of increasingly mechanistically driven tools for risk assessment Chairs: Richard Brown, Switzerland Bette Meek, Canada Overview of WHO/IPCS chemical risk assessment methodology tools Richard Brown, WHO, Switzerland

	<p>WHO/IPCS mode of action / human relevance framework: principles and application in risk assessment George Fotakis, European Chemicals Agency (ECHA), Finland</p> <p>Application and utility of chemical-specific adjustment factors in risk assessment Virunya Bhat, WHO Collaborating Centre on Water and Indoor Air Quality and Food Safety at NSF International, US</p> <p>Expressing uncertainty in hazard characterization and exposure assessment of substances: Principles and practice using APROBA-Plus Bas Bokkers, RIVM, Netherlands</p> <p>Combined exposures to multiple chemicals – tiered integration of tools Bette Meek, University of Ottawa, Canada</p>
10h30–16h00	<p>CEC3 The pre-specified protocol part of evidence-based assessment in toxicology Chairs: George Kass, Italy N. N.</p> <p>The role of a pre-specified protocol in evidence-based assessments George Kass, EFSA, Italy</p> <p>Scoping, literature search strategy, inclusion and exclusion criteria Rex FitzGerald, University of Basel, Switzerland</p> <p>Assessing internal validity Annika Hanberg, Institute of Environmental Medicine (IMM), Sweden</p> <p>Summarizing and synthesizing the evidence Ursula Gundert-Remy, Charité Berlin, Germany</p> <p>Aspects of weight of evidence Detlef Wölfle, Germany</p>
10h30–16h00	<p>CEC4 Real world safety assessments for data-poor products: How to approach data gaps <i>Supported by ILSI Europe</i> Chairs: Heli Miriam Hollnagel, Switzerland N. N.</p>

	<p>Properties of typical products requiring safety assessments: Focus on non-intentionally added substances (NIAS) Thomas Gude, SQTS, Switzerland</p> <p>Quantitative structure-activity relationship (QSAR) and grouping approaches such as read-across and category formation Mark Cronin, John Moores University, UK</p> <p>Thresholds of toxicological concern (TTC) Heli Miriam Hollnagel, Dow Europe, Switzerland</p> <p><i>In vitro</i> assays: Validated assays for regulatory purpose versus explorative assays for Research & Development and high throughput Manfred Tacker, University of Applied Sciences Vienna, Austria</p> <p>Data sources for exposure assessment Tatsiana Dudzina, ExxonMobil Biomedical Science Inc., Belgium</p>
10h30–16h00	<p>CEC5 Dietary exposure assessment <i>Supported by the Finnish Food Safety Authority</i> Chairs: Tero Hirvonen, Finland N. N.</p> <p>Dietary exposure assessment: an overview Davide Arcella, European Food Safety Authority, Italy</p> <p>Unravelling the chemical information hiding in our food Stefan Voorspoels, Flemish Institute for Technological Research (VITO), Belgium</p> <p>Food consumption data Liisa Valsta, National Institute for Health and Welfare, Finland</p> <p>Total diet studies: benefits and challenges Véronique Sirof, ANSES (French Agency for Food, Environmental and Occupational Health & Safety), France</p> <p>Dietary exposure modelling: MCRA software Polly Boon, RIVM, Netherlands</p>

	Statistical modelling: BIKE Model Jukka Ranta, Finnish Food Safety Authority, Finland	
10h30–16h00	<p>CEC6 Determining safe exposure limits in occupational toxicology, application to pharmaceuticals Chairs: Nancy Claude, France Ester Lovsin-Barle, Switzerland</p> <p>Key elements of reliable risk assessment of chemicals Corrado Galli, University of Milan, Italy</p> <p>Regulatory perspective on application of health based exposure limits (HBEL) in drug manufacturing Daniel Roth, Swissmedic, Switzerland</p> <p>Derivation of acceptable daily exposures (ADE) or Occupational exposure limits (OEL) – An industry approach Thomas Pfister, F. Hoffmann-La Roche, Switzerland</p> <p>Overcoming data gaps: Generic versus substance-specific approaches in health based exposure limit (HBEL) setting Ester Lovsin-Barle, Lonza, Switzerland</p> <p>Case study, special end points, route to route extrapolation Camille Jandard, Servier, France</p> <p>ECHA's experiences with OELs Stella Jones, ECHA, Finland</p>	
16h00	Opening of the exhibition	
17h00–19h00	Opening Ceremony incl. Keynote Lecture 1 and EUROTOX Merit Award Keynote Lecture by Markku Kulmala, University of Helsinki, Finland: Atmospheric aerosols: from molecular clustering to regional air quality and global climate	
19h00–21h00	Welcome Reception in the exhibition area	
Monday, September 9, 2019		
08h00–18h00	Congress registration	09h00–16h30 Exhibition
09h00–10h00	Keynote Lecture 2 Harri Alenius, Karolinska Institutet, Sweden: Systems toxicology: a key towards reliable hazard prediction	

10h00–10h30	Coffee Break, Exhibition & Poster Viewing 1
10h30–12h30	<p>Session 1 Metabolic capacity and functionality of the gut microbiome <i>Supported by ECETOC</i> Chairs: Bennard van Ravenzwaay, Germany Karsten Beekmann, Netherlands</p> <p>Determining the role of the gut microbiota in the toxicity of foodborne chemicals in vitro Karsten Beekmann, Wageningen University of Research, Netherlands</p> <p>Metabolomic applications to decipher gut microbial metabolic influence in health and disease François-Pierre Martin, Nestlé Institute of Health Sciences, Switzerland</p> <p>Influence of the microbiome on plasma metabolite patterns – an inter-omic approach Christina Behr, BASF & Wageningen University of Research, Germany</p> <p>Contribution of the gut microbiome to host endogenous and xenobiotic metabolism and the carcinogenic potential of the microbiome Kiran Patil, EMBL, Germany</p>
10h30–12h30	<p>Session 2 Fetus – the most sensitive individual Chairs: Kirsi Vähäkangas, Finland N. N.</p> <p>Fetal exposure to toxic compounds Kirsi Vähäkangas, University of Eastern Finland, Finland</p> <p>Environment and male reproductive health Niels Skakkebaek, Rigshospitalet Copenhagen, Denmark</p> <p>Epigenetics in fetal susceptibility to toxicity Juliette Legler, Utrecht Institute for Pharmaceutical Sciences (UIPS), Netherlands</p> <p>Future trends in testing for developmental toxicity Aldert Piersma, RIVM, Bilthoven, Netherlands</p>

<p>10h30–12h30</p>	<p>Session 3 The exposome – understanding the role of environmental exposure in human health and disease Chairs: Angela Mally, Germany N. N.</p> <p>EXPOsOMICS: Novel approach to the assessment of exposure to high priority environmental pollutants Oliver Robinson, Imperial College London, UK</p> <p>Chemical exposure metabolomics Benedikt Warth, University of Vienna, Austria</p> <p>The human early-life exposome and its link to children’s health Rémy Slama, INSERM, France</p> <p>Developing the regulatory utility of the exposome Elaine Faustman, University of Washington, US</p>
<p>10h30–12h30</p>	<p>Session 4 How innate immune cells recognize toxicants Chairs : François Huaux, Belgium N. N.</p> <p>Innate cells sense toxicants as microorganisms François Huaux, Université catholique de Louvain, Belgium</p> <p>Lessons for toxicology from pathogen sensing by the innate immunity Mohamed Lamkanfi, Ghent University, Belgium</p> <p>Metal-induced immunotoxicity: ionic metals, innate immune receptors and skin allergy Marc Pallardy, Université de Paris-Sud, France</p> <p>Scavenger receptors recognize toxicants Andrij Holian, University of Montana-Missoula, US</p> <p>Revisiting the paradigm of silica pathogenicity: molecular description of the toxicity-relevant surface features Francesco Turci, University of Torino, Italy</p>

10h30–12h30	<p>Session 5 New tools and application in reg. risk assessment – moving toward mechanistic risk assessment <i>Supported by EU-ToxRisk Project</i> Chairs: Bob van de Water, Netherlands N. N.</p> <p>Development of <i>in vitro</i> tests – Quality assurance and cross system testing Tanja Waldmann, University of Konstanz, Germany</p> <p>Modeling the impact of several <i>in vitro</i> systems in a read-across approach – applicability of the Dempster Shafer Theory Ulf Norinder, SweTox, Sweden</p> <p>Incorporating QIVIVE and PBTK into toxicity testing and assessment Ciaran Fisher, SIMCYP, UK</p> <p>Development of qualitative and quantitative AOPs and their integration into risk assessment Frédéric Bois, INERIS, France</p> <p>Integrate NAMs into reg. risk assessment – experiences from read-across case studies Sylvia Escher, Fraunhofer ITEM, Germany</p>
12h30–13h30	Lunch Break, Exhibition & Poster Viewing 1
12h30–13h30	<p>Industry Session by WuXi AppTec Strategies for large molecule programs: What is needed for your IND submission?</p> <p>Sue McPherson, WuXi AppTec, Laboratory Testing Division, US</p>
12h30–13h30	<p>Industry Session by Charles River Our EOGRTS experience – regulatory & practical considerations Chair: Manon Beekhuijzen</p> <p>Speakers: Manon Beekhuijzen, Pragati S. Coder, Sylvia Pelgrom, Charles River, US</p>
13h30–14h30	EUROTOX–SOT Debate
14h30–15h00	Coffee Break, Exhibition & Poster Viewing 1

15h00–17h00	<p>Session 6 Developments in the use of systematic review in chemical risk assessment Chairs: Richard Brown, Switzerland N. N.</p> <p>Principles of systematic approaches for chemical risk assessment Annika Hanberg, Karolinska Institute, Sweden</p> <p>Getting the balance right between objectives and resources for a systematic review – the importance of problem formulation Martin Wilks, University of Basel, Switzerland</p> <p>Systematic review in the regulatory food safety area - Experiences from a JECFA evaluation Lianne de Wit, RIVM, Netherlands</p> <p>Use of systematic review methods by national programmes – examples from the USA Brandiese Beverly, US Government (NIEHS), US</p>
15h00–17h00	<p>Session 7 Speeding up hazard assessment of nanomaterials Chairs: Bengt Fadeel, Sweden N. N.</p> <p>Hazard assessment of engineered nanomaterials: setting the scene Bengt Fadeel, Karolinska Institutet Stockholm, Sweden</p> <p>High-content/high-throughput screening of nanomaterials Carsten Weiss, Karlsruhe Institute of Technology, Germany</p> <p>Systems biology approaches for nanomaterial hazard classification Dario Greco, University of Tampere, Finland</p> <p>Systems toxicology to support development of adverse outcome pathways Roland Grafström, Misvik Biology Turku, Finland</p>
15h00–17h00	<p>Session 8 Human adaptation to environmental pollution: dose-response relationship revisited Chairs: Pavel Rossner, Czech Republic Alberto Izzotti, Italy</p>

	<p>Hormesis: Scientific foundations and its implications for biology, toxicology and medicine Edward J. Calabrese, University of Massachusetts, US</p> <p>Biomarkers for adaptive responses: how toxicology changes into pharmacology Aalt Bast, Maastricht University, Netherlands</p> <p>Clues to adaptation of the human population to the environment: lessons from Czech biomonitoring studies Pavel Rossner, Institute of Experimental Medicine Prague, Czech Republic</p> <p>MicroRNA response to environmental carcinogens: from adaptation to damage Alberto Izzotti, University of Genoa, Italy</p>
15h00–17h00	<p>Session 9 Application of new approach methods and development of integrated approaches to testing and assessment – moving toward mechanistic risk assessment <i>Supported by EU-ToxRisk Project</i> Chairs: Hennie Kamp, Germany Bob van de Water, Netherlands</p> <p>Read-across concept in EU-ToxRisk and integration of new approach methods into risk assessment – example branched carboxylic acids Sylvia Escher, Fraunhofer ITEM, Germany</p> <p>Integration of new approach methods in a structure based read-across for DART effects Dinant Kroese, TNO, Netherlands</p> <p>Learnings from EU-ToxRisk read-across case studies: application of new approach methods Bob van de Water, Leiden University, Netherlands</p> <p>Ab initio- prediction of liver toxicity by <i>in vitro</i> systems and spatio-temporal modelling Jan Hengstler, IFADO, Germany</p>
15h00–17h00	<p>Session 10 The process of ageing and its modulation: telomeres as biomarkers in <i>in vitro</i> and <i>in vivo</i> studies Chairs: Aristidis M. Tsatsakis, Greece Félix Carvalho, Portugal</p> <p>Clinical aspects of Precision Medicine using as biomarkers telomere length, fatty acids and organic acids</p>

	<p>Dimitris Tsoukalas, E.I.Nu.M., Greece</p> <p>Low grade chronic inflammation and telomere shortening: immunosenescence process in human Ayse Basak Engin, Gazi University, Turkey</p> <p>Live fast, die young mode: influence of substance abuse on telomeres and telomerase Félix Carvalho, University of Porto, Portugal</p> <p>Telomeres biology involvement in thyroid neoplasia: from aging clock to aggressive cancers Corin Badiu, The Romanian Society of Psychoneuroendocrinology, Romania</p>
17h00–18h00	Speciality Section Meetings
19h30–21h30	City Hall Reception , sponsored by the City of Helsinki

Tuesday, September 10, 2019		
08h00–18h00	Congress registration	09h00–16h30 Exhibition
09h00–10h00	SOT Merit Award Lecture	
10h00–10h30	Coffee Break, Exhibition & Poster Viewing 2	
10h30–12h30	<p>Session 11 Challenges of non-animal approaches for food safety: from inception to application <i>Supported by ILSI Europe</i> Chairs: Alan Boobis, UK Anette Thiel, Switzerland</p> <p>High throughput screening in the risk and benefit assessment of food ingredients Ans Punt, RIKILT, Netherlands</p> <p>Adverse outcome pathways and beyond Mathieu Vinken, Vrije Universiteit Brussel, Belgium</p> <p>Strategies for avoiding animal testing in food safety and efficacy evaluation: challenges and opportunities Bob van de Water, Leiden University, Netherlands</p> <p>Regulatory perspective on non-animal approaches to assess foods and food ingredients Katrin Schutte, European Commission – DG Environment, Belgium</p>	
10h30–12h30	<p>Session 12 Implications of biodistribution of inhaled nanoparticles: effects in organs other than the lung Chairs: Karin Sørig Hougaard, Denmark Flemming Cassee, Netherlands</p> <p>The lung as a barrier to inhaled particles: dosimetry and biodistribution Flemming Cassee, RIVM, Netherlands</p> <p>Effects of particles on the central nervous system Roel Schins, Leibniz Research Institute for Environmental Medicine, Germany</p> <p>Effects of particles on the placenta and fetus Luisa Campagnolo, University of Rome, Italy</p>	

	<p>Effects of particles on male and female fertility Karin Sørig Hougaard, Danish Centre for Nanosafety, Denmark</p>
10h30–12h30	<p>Session 13 Knowledge-based computational approaches in predictive toxicology <i>Supported by EU-H2020</i> Chairs: Ferran Sanz, Spain Thomas Steger-Hartmann, Germany</p> <p>The power of workflows – toxicological read across using the Open PHACTS discovery platform Gerard F. Ecker, University of Vienna, Austria</p> <p>Integrating explicit knowledge and statistics in the <i>in silico</i> modelling Emilio Benfenati, IRFMN, Italy</p> <p>Predicting with confidence: Toxicological <i>in silico</i> model building and prediction using Conformal Prediction Ulf Norinder, SweTox, Sweden</p> <p>Small is beautiful: application of local models in toxicology Manuel Pastor, University Pompeu Fabra, Spain</p>
10h30–12h30	<p>Session 14 Understanding the interindividual variability in toxicity involving the psychotropic drugs Chairs : Bruno Mégarbane, France N. N.</p> <p>Psychotropic drug poisonings admitted to the emergency department: epidemiology and morbidities Pieter de Paepe, University Hospital Ghent, Belgium</p> <p>Drug-induced toxicity at therapeutic doses versus acute overdose: physiopathological differences Florian Eyer, Technical University of Munich, Germany</p> <p>Alcohol poisonings: understanding inter-individual toxicokinetic differences and effect variations Ana Ferrer-Dufol, Zaragoza University, Spain</p> <p>Lithium poisoning: how the ingestion pattern can modify its neuropharmacokinetics and neurotoxicity Bruno Mégarbane, Paris-Diderot University, France</p>

10h30–12h30	<p>Session 15 Investigative Toxicology Leaders Forum (ITLF): Scientific advancements and case studies for the optimization of drug discovery. Trends in investigative toxicology Chairs: Teija Oinonen, Finland Thomas Steger-Hartmann, Germany</p> <p>Olson revisited – Translational Analysis of Safety Data (IMI eTRANSafe) François Pognan, Novartis Pharma AG, Switzerland</p> <p>Application of <i>in vitro</i> pharmacokinetic simulations using “microformulator” technology for quantified risk assessments Clay Scott, AstraZeneca, US</p> <p>Development of 3D eye models for early assessment of retinal toxicity. A CRACK-IT Challenge Philip Hewitt, Merck KgaA/ERT, Germany</p> <p>Development of <i>in vitro</i> systems for ADC toxicity Terry van Vleet, AbbVie, Germany</p>
12h30–13h30	Lunch Break, Exhibition & Poster Viewing 2
12h30–13h30	<p>Industry Session by Citoxlab How to navigate and interpret EC regulations on endocrine disruption testing using available guidance and testing platforms</p> <p>Weight of evidence brought by OECD level 3 test methods using <i>in vitro</i> aquatic embryos Gregory Lemkine, WatchFrog, France</p> <p>Combining smart study design in regulatory toxicology with targeted investigations to determine endocrine disruption potential and human relevance Pramila Singh, Citoxlab, France</p>
12h30–13h30	<p>Industry Session by Instem Leveraging the combined power of technology, expertise and regulatory standards for safer outcomes</p> <p>Gordon Baxter, Instem, UK</p>

	Marc Ellison
13h30–14h30	ILSI/HESI Lecture
14h30–15h00	Coffee Break, Exhibition & Poster Viewing 2
15h00–17h00	<p>Session 16 Chemical risk assessment using human <i>in vitro</i>, <i>ex vivo</i>, <i>in silico</i> and biomonitoring data Chairs : Anne Marie Vinggaard, Denmark N. N.</p> <p>Chemical risk assessment: How well do human <i>in vitro</i> and <i>in silico</i> data predict the <i>in vivo</i> situation? Richard Judson, EPA, US</p> <p>PBK modeling for chemical risk assessment: <i>in vitro</i> biomarkers for developmental toxicity and their extrapolation to the <i>in vivo</i> situation Yvonne Rietjens, Wageningen University, Netherlands</p> <p>Prediction of adverse male reproductive health effects using <i>in vitro</i> tests and PBK modelling Anne Marie Vinggaard, Technical University of Denmark/SSCT & ESTIV, Denmark</p> <p>Human biomonitoring and complex serum mixture effects as biomarkers of impact on fetal growth Eva Bonefeld-Jørgensen, Aarhus University, Denmark</p>
15h00–17h00	<p>Session 17 Experimental comprehensive toxicological studies simulating real-life exposures: Long-term combined exposures on multi end-points Chairs: Aristidis M Tsatsakis, Greece Antonio Hernández, Spain</p> <p>Experimental designs and protocols from methodology to application: problems and solutions Anca O. Docea, University of Medicine and Pharmacy Craiova, Romania</p> <p>Oxidative stress biomarkers in long-term toxicity studies of combined exposures Dimitrios Kouretas, University of Thessaly, Greece</p> <p>Comparative evaluation and challenges in translating endpoints from experimental studies to human epidemiological observations Antonio Hernández, University of Granada School of Medicine, Spain</p>

	<p>The concept of Toxicology safety evaluations in 21st century Aristidis M Tsatsakis, University of Crete, Greece</p>
15h00–17h00	<p>Session 18 Biomarkers in predictive toxicology and risk assessment Chairs: Eugenia Dogliotti, Italy N. N.</p> <p>The exposome in practice Oliver Robinson, Imperial College London, UK</p> <p>Microfluidic systems to identify new biomarkers Henriette Lanz, Mimetas – The Organ on a Chip Company, Netherlands</p> <p>Lessons learnt from ‘omics’ technologies <i>in vivo</i> in the last decades Heidrun Ellinger-Ziegelbauer, Bayer AG, Germany</p> <p>Use of biomarkers in the assessment of risk from environmental contamination by perfluorinated compounds: strengths and weaknesses Tony Fletcher, Public Health England, UK</p>
15h00–17h00	<p>Session 19 Endocrine disruption: identification of root causes <i>Supported by ECETOC</i> Chairs: Bennard van Ravenzwaay, Germany N. N.</p> <p>ED identification and the use of weight of evidence tba.</p> <p>Dose-response relationship of single and combined exposure to ED chemicals <i>in vitro</i> & <i>in vivo</i> Steffen Schneider, BASF, Germany</p> <p>A perspective of ED and Regulation in the EU Helen McGarry, UK Health Safety Executive, UK</p> <p>Epidemiology – a new perspective on root causes of observations Gerard Swaen, Maastricht University, Netherlands</p>

15h00–17h00	<p>Session 20 Investigative Toxicology Leaders Forum (ITLF): Scientific advancements and case studies for the optimization of drug discovery Chairs: Philip Hewitt, Germany François Pognan, Switzerland</p> <p>DILI revisited – key results of the IMI project MIP-DILI Philip Hewitt, Merck, Germany</p> <p>Bile acid sequestration by cholestyramine mitigates FGFR4 inhibition-induced ALT elevation Heiko Schadt, Novartis Pharma, Switzerland</p> <p>Elucidating the role of mitochondrial dysfunction in drug-induced intrahepatic cholestasis Sophie Penman, Servier/Liverpool University, UK</p> <p>Mitochondrial toxicity in the context of hypoxia Katie O'Brien, GSK/Cambridge University, UK</p>
15h00–17h00	<p>Sponsored Symposium Promotion of safe nanotechnology through global networking <i>Sponsored by EC4SafeNano (EU H2020-project No 723623) / INERIS</i> Chairs: Anna-Kaisa Viitanen, Finland Hannu Norppa, Finland</p> <p>Nanosafety – Importance of global networking Juan Riego-Sintes, The Joint Research Centre, Italy</p> <p>Safe nanotechnology – Actions in South-America Ricardo Azevedo, University of Brasilia, Brazil</p> <p>Introduction of the Centre of European Organisations for Safe Nanotechnology Emeric Frejafon, INERIS, France</p> <p>Nanosafety networks in Asia N. N.</p> <p>Open discussion with all speakers Moderated by Kai Savolainen, FST, Finland</p>
20h00–0h00	Congress Dinner at Clarion Hotel

Wednesday, September 11, 2019		
08h00–13h00	Congress Registration	09h00–12h00 Exhibition
08h30–09h30	Bo Holmstedt Memorial Fund Lecture Chair: Herman Autrup, Denmark	
09h30–11h30	Session 21 Comprehensive toxicological profiles in nanoformulations for blood brain barrier Chairs: Aristidis M. Tsatsakis, Greece Petra Henrich-Noack, Germany <i>In vivo</i> imaging of nanoparticles' effects and side effects in the healthy and diseased brain Petra Henrich-Noack, Otto-von-Guericke University, Germany Extracellular matrix and nanoparticles interaction – breaching new barriers? Dragana Nikitovic, University of Crete, Greece Amphiphilic poly-N-vinylpyrrolidone nanoparticles as drug carriers: Synthesis – Characterisation – Properties – Toxicological profile – Applications Mikhail Shtilman, D.I. Mendeleev University of Chemical Technology Moscow, Russia Bio-inspired nanoparticles in neuroscience Monica Neagu, 'Victor Babes' National Institute of Pathology Bucharest, Romania	
09h30–11h30	Session 22 Advancing toxicological evaluations in resolving current policy controversies in GMO products Chairs: Aristidis M. Tsatsakis, Greece Michael Antoniou, UK Integrating multiple 'omics' analysis to study the effects of herbicide-tolerant crops Robin Mesnage, King's College London, UK Adverse outcome pathways (AOPs) and challenges in chronic studies with GMOs Martin Wilks, University of Basel, Switzerland Risks from genetically modified plants; past, present and the future Marina Goumenou, University of Crete, Greece	

	<p>Scientific challenges for GMO regulation in Europe – the EFSA GMO Panel Chair's perspective Hanspeter Naegeli, University of Zurich, Switzerland</p>
09h30–11h30	<p>Session 23 Optimization of existing and construction of new testing strategies for skin sensitization potency Chairs: Dirk Petersohn, Germany Silvia Casati, Italy</p> <p>Development of performance-based test guideline for skin sensitization Silvia Casati, European Commission, Italy</p> <p>Chemical reactivity mapping of skin sensitizers in a reconstituted human epidermis model using HRMAS NMR Spectroscopy Jean-Pierre Lepoittevin, Strasbourg University, France</p> <p>A defined approach for skin sensitization potency integrating <i>in silico</i>, in chemico and <i>in vitro</i> cell data Isabel Ferreira, University of Coimbra, Portugal</p> <p>Practical application of existing and new testing strategies/defined approaches for risk assessment of cosmetic compounds Dirk Petersohn, Henkel, Germany</p>
09h30–11h30	<p>Session 24 Toxic epidemics: why should we still be worried in 2019? Chairs: Bruno Mégarbane, France N. N.</p> <p>The opioid analgesics Bruno Mégarbane, Paris-Diderot University, France</p> <p>The new psychoactive substances Paul Dargan, Guy's and St Thomas' NHS Foundation Trust, UK</p> <p>The anticholinesterasic pesticides Michael Eddleston, University of Edinburgh, UK</p> <p>The toxic alcohol Sergey Zacharov, Prague University, Czech Republic</p>
09h30–11h30	<p>Session 29</p>

	<p>Species specific gastrointestinal (GI) toxicity in rabbits – what does it mean for prenatal developmental toxicity (PNDT) studies and their regulatory use? Chairs: Jarlath Hynes, UK N. N.</p> <p>GI toxicity in rabbit – mechanisms and relevance for human Manon Beekhuijzen, Charles River Laboratories, Netherlands</p> <p>Rabbit PNDT studies and GI toxicity; what are the regulatory consequences for plant protection products? Mary Moxon, European Crop Protection, Belgium</p> <p>Alternative species and methods for PNDT testing for pharmaceuticals Céline Pique, Charles River Laboratories, France</p> <p>Regulatory considerations for the evaluation of rabbit PNDT studies submitted under REACH and/or BPR Ulrike Reuter, ECHA, Finland</p>
11h30–12h00	Coffee Break & Exhibition
12h00–14h00	<p>Session 25 Detection, assessment, management and communication of risk in mass human toxic exposures Chairs: Paul Dragan, UK Bruno Mégarbane, France</p> <p>Warfare scenarios involving chemicals Horst Thiermann, German Army Institute of Pharmacology and Toxicology, Germany</p> <p>Environmental contamination by organochlorine residues: Lindane manufacture residues Ana Ferrer-Dufol, Zaragoza University, Spain</p> <p>Outbreaks by contaminated food and beverages Sergey Zacharov, Prague University, Czech Republic</p> <p>Risk communication in mass poisoning situations – what do we do, where do we go? Charles McKay, University of Connecticut School of Medicine, US</p>
12h00–14h00	<p>Session 26 Suitability of non-animal approaches in different industries: One size fits all?</p>

	<p>Chairs: Phillip Bellion, Switzerland N. N.</p> <p>Non-animal approaches in the safety assessment of food and cosmetic ingredients: similarities and differences Phillip Bellion, DSM Nutritional Products, Switzerland</p> <p>Hurdles to improve validation of alternative methods for chemicals and proposed solutions Robert Landsiedel, BASF, Germany</p> <p>Alternative approaches in the early phases of pre-clinical toxicology. What is really used in the pharmaceutical industry? Thomas Steger-Hartmann, Bayer AG, Germany</p> <p>Establishing scientific credibility/validity of new approaches for different decision-making contexts Joao Barroso, European Commission Joint Research Centre (JRC), Italy</p> <p>Panel discussion with all speakers What can be leveraged across sectors and what not?</p>
12h00–14h00	<p>Session 27 Neurotoxicity in the scientific and regulatory outlook Chairs: Georges Kass, EFSA Italy N. N.</p> <p><i>In vitro</i> model of neurotoxicity Ellen Fritsche, Leibniz Research Institut for Environmental Medicine, Germany</p> <p>Exploring chemically induced neurotoxicity mode of action Barbara Viviani, University of Milano, Italy</p> <p>Toward the regulatory application of DNT in vitro assays Andrea Terron, European Food Safety Authority, Italy</p> <p>The use of zebrafish as an alternative model for behavioural testing Hilda Witters, Vito, Belgium</p>
12h00–14h00	<p>Session 28 Hepatotoxicity: mechanisms, new insight into liver function, and possibilities of <i>in vitro</i> prediction Chairs: Jan Hengstler, Germany N. N.</p>

	<p>Insight into mechanisms of hepatotoxicity by two-photon microscopy and derivation of predictive <i>in vitro/in silico</i> systems Jan Hengstler, Leibniz Research Centre for Working Environment and Human Factors (IfADo), Germany</p> <p>Computational modeling of cellular stress pathway activity and application in liver toxicity prediction Joost Beltman, Leiden University, Netherlands</p> <p><i>In vitro</i> metabolome data and a comparison to the <i>in vivo</i> situation Hennicke Kamp, BASF, Germany</p> <p>Activation of cytoprotective adaptive responses in liver cells by the antibiotic nitrofurantoin Stefan Schildknecht, University of Konstanz, Germany</p>
12h00–14h00	<p>Session 30 Substances of Unknown or Variable composition, Complex reaction products or Biological materials (UVCBs); new challenges in their toxicological evaluation and risk management in REACH</p> <p>Chair: David Bell, Finland</p> <p>The chemical composition of UVCBs – challenges in characterization Michal Skowron, ECHA, Finland</p> <p>Assessment of the hazardous properties of UVCBs George Cartlidge, ECHA, Finland</p> <p>How to establish read-across within a category of UVCBs- an industrial perspective Mike Penman, Penman Consulting, Belgium</p> <p>Regulatory Risk Management of UVCB substances- challenges and effective implementation Chryste Tossier, ECHA, Finland</p>
14h00–14h30	<p>Closing Ceremony and Awards presentation</p>

Due to the very dense scientific programme you might wish to arrange your travel schedule accordingly.

In line with this, we recommend to arrange for accommodation early in advance, as the availability of a suitable hotel room might not be granted at a later stage. Detailed information can be found online: [EUROTOX 2019 hotel reservation](#).