



## Programme

### Monday October 17, 2016

- 9.00 h                    Opening of Registrations
- 09.30 – 12.00 h    **ESTIV-EURL ECVAM Pre-Congress Workshop**  
Moving forward in carcinogenicity assessment  
**Chairs: Raffaella Corvi & Paul Jennings**  
(Main auditorium)
- 09.30 – 09.50 h    Carcinogenicity testing for regulatory purposes in the European Union  
**Federica Madia**, *European reference Laboratory on Alternative Methods (EURL-ECVAM), JRC, Ispra, Italy*
- 09.50 - 10.15 h    The key characteristics of human carcinogens  
**Kate Guyton**, *International Agency for Research on Cancer (IARC), WHO, Lyon, France*
- 10.15 – 10.40 h    Carcinogenicity assessment of pharmaceuticals: currently discussed alternatives to rodent long-term studies  
**Peter Kasper**, *Federal Institute for Drugs and Medical Devices (BfArM), Bonn, Germany*
- 10.40 - 11.05 h    Identifying likely breast carcinogens using complementary mechanistic approaches  
**Ruthann Rudel**, *Silent Spring Institute, Newton, Massachusetts, USA*
- 11.05 – 11.30 h    Investigations to better understand the mechanisms leading to *in vitro* cell transformation: contribution the development of an IATA for non-genotoxic carcinogenicity  
**Annamaria Colacci**, *Environmental Protection and Health Prevention Agency, Emilia Romagna, Italy*
- 11.30 – 11.55 h    Cross-omics approaches *in vitro* for predicting chemical carcinogenicity  
**Jos Kleinjans**, *Department of Toxicogenomics, Maastricht University, the Netherlands*
- 11.55 – 12.00 h    Concluding remarks
- 12.00 - 13.00 h    **ESTIV / CAAT Pre-Congress Workshop**

Good Cell Culture Practices  
**Chairs: Chantra Eskes & Thomas Hartung**  
(Main auditorium)

- 12.00 - 12.15 h 21st century cell culture for 21st century toxicology  
**Thomas Hartung**, Johns Hopkins Bloomberg School of Public Health, CAAT, Baltimore, MD, USA
- 12.15 - 12.30 h How to smartly apply GxP regulations to *in vitro* toxicology  
**Alain Piton**, ALP Quality Systems, Sophia Antipolis, France
- 12.30 -12.45 h Guidance document on good in vitro method practices (GIVIMP)  
*Speaker to be confirmed*
- 12.45 - 13.00 h Round table discussions

13.00 – 14.00 h Lunch

- 14.00 – 14.15 h **Opening of ESTIV2016**  
**Chantra Eskes** (ESTIV)  
**Alain Simonnard** (SFT, LOC ESTIV2016)  
**Marc Pallardy** (SPTC)
- 14.15 – 15.15 h **Keynote lecture**  
Predictive Toxicology: a future for in vitro toxicology?  
**Dominique Lison**, Catholic University of Louvain, Louvain, Belgium  
(Main auditorium)
- 15.15 – 16.00 h **Björn Ekwall Memorial Award lecture and prize ceremony**  
From the “basal cytotoxicity”concept to the development of a novel in vitro model for detecting liver-specific toxicity  
**Vera Rogiers**, Vrije Universiteit Brussel, Belgium  
(Main auditorium)
- 16.00 – 16.30 h Coffee break and Poster viewing
- 16.30 - 19.00 h **Session 1: New developments in cell bioengineering and self assembly**  
*Session chairs: Sophie Lelièvre & Nathalie Alépée*  
(Main auditorium)
- 16.30 - 17.00 h Cellular Arrangements in Standard and Organ-on-a-Chip 3D Cultures: Geometry and Mechanical Constraints Matter for in vitro Toxicology  
**Sophie Lelièvre**, Purdue University College of Veterinary Medicine, Indiana, USA
- 17.00 - 17.20 h CON4EI: CONSortium for in vitro Eye Irritation testing strategy  
**Els Adriaens**, Adriaens Consulting bvba, Aalter, Belgium
- 17.20 - 17.40 h Advanced Hepatotoxicity Assessment in a Perfused Microbioreactor Using

Real-Time Metabolic Monitoring  
**Sebastian Prill**, Fraunhofer IZI-BB, Postdam, Germany

- 17.40 - 18.00 h Human 3D-cocultures for the study of toxicant induced liver fibrosis  
**Laura Suter-Dick**, University of Applied Sciences Northwestern Switzerland FHNW, Switzerland
- 18.00 - 18.15 h 3D human hepatic organoids for testing Fibrosis, Cholestasis and Phospholipidosis  
**Sofia Batista Leite**, BSWE-LIVR, Vrije Universiteit Brussel, Belgium
- 18.15 - 18.30 h Development of a 3D in vitro model for the assessment of repeated dose hepatotoxicity  
**Anne Riu**, L'Oréal, Research & Innovation, Aulnay-sous-Bois, France
- 18.30 - 18.45 h 3D co-culture of human hepatocytes and mesenchymal stem cells in bioreactors for long-term toxicity testing  
**Margarida Serra**, iBET, ITQB-UNL, Oeiras, Portugal
- 18.45 -19.00 h Generation of human iPSC-derived renal proximal tubular cells and podocytes with the application for drug toxicity screening  
**Anja Wilmes**, Medical University of Innsbruck, Austria

19.00 - 20.30 h **Welcome reception**

## Tuesday October 18, 2016

08.30 - 10.30 h **Session 2: Extrapolation dose, modeling and biodistribution**  
Session chairs: **Emanuela Testai & Bas Blauboer**  
(Main auditorium)

- 08.30 - 09.00 h In vitro biokinetics and modeling in an animal-free testing strategy; the way forward to IVIVE  
**Emanuela Testai**, Istituto Superiore di Sanità (ISS), Rome, Italy
- 09.00 – 09.20 h Toxicokinetics Strategy for individual and combined exposure to chemicals highlighting vitro to In vivo Extrapolation  
**Alicia Paini**, European Commission, Joint Research Centre, Ispra, Italy
- 09.20 - 09.40 h Impact of skin metabolism on bioavailability and consequences for risk assessment of personal care ingredients  
**Paul Quantin**, Departement of Toxicology, THOR Personal Care, Compiègne, France
- 09.40 - 10.00 h PBTK modeling of potential endocrine modulators: In vitro-in vivo extrapolation (IVIVE) and in silico-in vitro based risk assessments  
**Robert Landsiedel**, BASF SE, Ludwigshafen, Germany
- 10.00 - 10.20 h A mechanism-based hepatotoxicity simulation model to capture dose-dependent cell death dynamics in response to the drugs amiodarone and valproate  
**Alina Crudu**, L'Oréal, Research & Innovation, Paris, France
- 10.20 - 10.30 h General discussion

10.30 - 11.00 h Coffee break and Poster viewing

11.00 - 12.30 h **Session 3-I: Systemic toxicity I**  
Session chairs: **Gladys Ouedraogo & Mathieu Vinken**  
(Main auditorium)

11.00 - 11.30 h Repeated dose systemic toxicity: what alternative approaches?  
**Gladys Ouédraogo, L'Oréal, Paris, France**

11.30 - 11.45 h Use of bioprinted 3D Human Tissues for the Assessment of Drug Toxicity and Metabolism and as a Model of Complex Disease Phenotypes  
**Deborah Nguyen, Organovo Inc., San Diego, California, USA**

11.45 – 12.00 h Exploration of drug-induced mitochondrial toxicity mechanisms on hepatic mitochondria and cultured cells  
**Reine Note, L'Oréal, Research & Innovation, Paris, France**

12.00 - 12.15 h Quantifying stress responses and adversity: refined gene signatures to classify chemicals based on their mechanisms of toxicity  
**Alice Limonciel, Medical University of Innsbruck, Austria**

12.15 – 12.30 h Impact of silver nanowire length, diameter, and surface chemistry on rainbow trout cells (RTgillW1 and RTgutGC) and larvae  
**Devrah Arndt, University of Florida, USA**

12.30 - 14.00 h Lunch and Poster viewing

14.00 - 15.00h **Student session 1: Young speaker session**  
Session chair: **Chantra Eskes**  
(Main auditorium)

14.00 - 14.05 h Opening of session

14.05 - 14.15 h Novel mathematical model for estimation of the estrogenic activity of chemical mixtures  
**Martin Ezechias, Laboratory of Environmental Biotechnology, Institute of Microbiology of the CAS ,v.v.i., Prague, Czech Republic**

14.15 - 14.25 h Comparison and validation of an in vitro skin sensitization strategy using a data set of 33 chemical references  
**Elodie Clouet, Safety Assessment Department, Pierre Fabre Dermo Cosmétique, Toulouse, France**

14.25 - 14.35 h Exposure to a cocktail of pharmaceuticals, pesticides and environmental pollutants exacerbates disruption of androgen action in human fetal testes  
**Pierre Gaudriault, Irset-Inserm U1085, Rennes, France**

14.35 - 14.45 h Reprogramming of umbilical cord-derived mesenchymal stem cells towards hepatocyte-like cells by repeated transfection with in vitro transcribed mRNA of hepatic transcription factors  
**Karolien Buyl, Department of In Vitro Toxicology & Dermato-Cosmetology, Faculty of Medicine and Pharmacy, Vrije Universiteit Brussel, Belgium**

- 14.45 - 14.55 h Biocompatible Label-free Detection of Carbonaceous Particles to Assess their In Vitro Toxicology in Biological Environments  
**Hannelore Bové**, Hasselt University/KU, Leuven, Belgium
- 14.55 - 15.00 h Closure of session
- 15.00 – 16.30 h **Session 3-II: Systemic toxicity II**  
Session chairs: **Magda Chlebus & Philippe Bourrinet**  
(Main auditorium)
- 15.00 – 15.30 h A ToxCast/ExpoCast Based Analysis of Woman Ovarian Cycle Disruption by Aromatase Inhibitors  
**Frederic Y. Bois**, INERIS, Verneuil-en-Halatte, France
- 15.30 – 15.45 h Toxic properties of nitrogen-containing polycyclic aromatic hydrocarbons PANH as compared to PAH analogues  
**Myriam Coulet**, Nestle Research Center, Lausanne, Switzerland
- 15.45 – 16.00 h In vitro verification of an adverse outcome pathway of cholestasis  
**Robim M. Rodrigues**, Dept. In Vitro Toxicology and Dermato-Cosmetology, Vrije Universiteit Brussel, Brussels, Belgium
- 16.00 – 16.15 h The Adverse Outcome Pathways Knowledge Base (AOP-KB) – State of Play  
**Clemens Wittwehr**, European Commission, Joint Research Centre, Ispra, Italy
- 16.15 – 16.30 h Differential effects of consecutive exposure-recovery periods on renal proximal tubule cells physiology and defence mechanisms  
**Alice Limonciel**, Medical University of Innsbruck, Austria
- 16.30 - 17.00 h Coffee break and Poster viewing
- 17.00 - 19.00 h **Session 4: Endocrine disruptors**  
Session chairs: **Jean Pierre Cravedi & Patrick Balaguer**  
(Main auditorium)
- 17.00 - 17.25 h An integrated approach for the characterization of the Interaction between nuclear receptors and endocrine disruptors  
**Patrick Balaguer**, INSERM, Montpellier, France
- 17.25 - 17.45 h Metabolomic approaches related to endocrine disruptors: a dead end or a promising avenue?  
**Jean-Pierre Cravedi**, INRA, Toulouse, France
- 17.45 - 18.00 h State of the art human cell based testing of endocrine disrupting chemicals  
**Peter Behnisch**, BioDetection Systems BV, Amsterdam, Netherlands
- 18.00 - 18.15 h Screening methodology for identification of endocrine disrupting substances  
**Alfonso Lostia**, European Commission, Joint Research Centre, Ispra, Italy
- 18.15 - 18.30 h New markers for the evaluation of endocrine disruptors on microplate using

a human placental model  
**Anaïs Wakx**, UMR CNRS 8638 COMETE, Université Paris Descartes,  
Paris, France

18.30 - 18.45 h The chlordane pesticide component trans-nonachlor modulates in vitro the microRNA miR-141-3p in human melanocytes and in vivo its Drosophila ortholog miR-8, triggering melanoma cell characteristics and multigenerational inheritance

**Patrick Verrando**, INRA / INRA-PACA (TCMX team), Sophia Antipolis,  
France

18.45 - 19.00 h Association between phthalates and reproductive biomarkers in infertile male

**Rashmi Tomar Rana** Deptt of Biophysics, All India Institute of Medical Sciences (AIIMS) New Delhi, India

### Wednesday October 19, 2016

08.30 – 10.30 h **Session 5: Biopharmaceuticals**  
Session chairs: **Marc Pallardy & Franck Brennan**  
(Main auditorium)

08.30 - 09.00 h How to use in vitro models for safety assessment of biopharmaceuticals during their development?

**Marc Pallardy**, University Paris Sud, Châtenay-Mallabry, France

09.00 - 09.35 h In vitro assays to assess the immunosafety of monoclonal antibodies

**Frank Brennan**, UCB-Celltech, Slough, Berkshire, United Kingdom

09.35 - 10.10 h In vitro T cell response to biopharmaceuticals in healthy donors as a tool of prediction of immunogenicity

**Bernard Maillère**, CEA, Gif sur Yvette, France

10.10 - 10.30 h Towards improved predictability in pre-clinical research: Human 3D neural in vitro model for assessment of gene therapy vectors

**Daniel Simão**, iBET – Instituto de Biologia Experimental e Tecnológica, Oeiras, Portugal

10.30 - 11.00 h Coffee break and poster viewing

11.00 - 12.30 h **Session 6: Emerging technologies for in vitro tissue/organ formation and toxicity testing**  
Session chairs: **Reyk Horland & Leonora Buzanska**  
(Main auditorium)

11.00 - 11.30 h Multi-organ-chip developments: towards a paradigm shift in drug development

**Reyk Horland**, Technical University of Berlin, Germany

11.30 – 11.45 h Combined Blood Brain Barrier and a Human Brain Microphysiological System as a tool for drug screening for Parkinson's disease.

**David Pamies**, Johns Hopkins University, Baltimore, Marineland, USA

- 11.45 - 12.00 h Toxicogenomics assessment of testicular toxicity induced by a mixture of fungicides in a rat ex vivo model  
**Odette Prat**, CEA/DRF/BIAM, Cadarache, France
- 12.00 - 12.15 h A novel flow cytometry-based bone marrow assay for small and large molecule profiling for hematopoietic toxicity  
**Claudia McGinnis**, Roche, Basel, Switzerland
- 12.15 - 12.30 h Focussing on foci: beyond the standard use of Cell Transformation Assays to improve in vitro carcinogenicity testing as a replacement.  
**Giulia Callegaro**, Department of Earth and Environmental Sciences, University of Milano - Bicocca, Italy
- 12.30 – 14.00 h Lunch and poster viewing
- 14.00 – 15.00 h **Sponsors session**  
(Main auditorium)
- 15.00 - 16.00 h **Debate session:** Application of IATA in a regulatory context: prescriptiveness versus flexibility and cost versus coverage  
**Maurice Whelan**, Systems Toxicology Unit, IHCP, EC-JRC, EURL ECVAM, Ispra, Italy  
**Robert Landsiedel**, BASF, Ludwigshafen, Germany  
(Main auditorium)
- 16.00 - 16.30 h Coffee break and poster viewing
- 16.30 – 17.00 h ESTIV General Assembly (Fitzgerald room)  
French Society of Toxicology General Assembly (Main auditorium)
- 17.00 - 18.30 h **Student session 2:** Job opportunities and career exploration  
(Fitzgerald room)
- 19.00 h Congress dinner
- Thursday October 20, 2016**
- 08.30 – 10.30 h **Session 7:** Regulatory updates  
**Session chairs: Anne Gourmelon & Martine Clauw**  
(Main auditorium)
- 08.30 – 09.00 h Works at OECD on the regulatory acceptance of in vitro Test Guidelines  
**Anne Gourmelon**, OECD, Paris, France
- 09.00 – 09.20 h Progress in the implementation of the EURL ECVAM strategy on skin sensitization  
**João Barroso**, EURL ECVAM, European Commission, Joint Research Centre, Ispra, Italy
- 09.20 – 09.40 h Applicability domain of the U-SENS™ test method for skin sensitization testing over 175 chemicals  
**Nathalie Alepée**, L'Oréal, Research & Innovation, Paris, Paris, France

- 09.40 – 10.00 h Appropriate Utilization of Current ToxCast/Tox21 Data  
**Natalia Ryan**, Bayer SAS, Research Triangle Park, North Carolina, USA
- 10.00 – 10.15 h The challenge of detecting developmental neurotoxicity: hazard prediction vs. mechanistic understanding  
**Andrea Terron**, European Food Safety Authority, Parma, Italy
- 10.15 – 10.30 h Development and validation of a new in vitro high throughput genotoxic screening strategy in human cells  
**Marc Audebert**, INRA, Toulouse, France
- 10.30 - 11.00 h Coffee break and poster viewing
- 11.00 - 12.30 h **Session 8: Mixtures**  
Session chairs: **Stéphanie Bopp & Robert Barouki**  
(Main auditorium)
- 11.00 - 11.30 h Novel approaches for assessing combined effects from exposure to multiple chemicals  
**Stéphanie Bopp**, European Commission Joint Research Center, Ispra, Italy
- 11.30 - 11.45 h The human exposome and contaminant mixture effects  
**Robert Barouki**, INSERM, Université Paris Descartes, France
- 11.45 - 12.00 h Assessment of mixture effects of estrogenic and anti-androgenic pesticide residues at low, consumer-relevant concentrations in vitro  
**Bettina Seeger**, Institute for Food Toxicology and Analytical Chemistry, Hannover, Germany
- 12.00 - 12.15 h In vitro biodetection and food chemical risk assessment  
**Benoit Schilter**, Nestlé Research Center, Lausanne, Switzerland
- 12.15 - 12.30 h Zebrafish as an alternative model to assess embryotoxicity of glyphosate-based formulation  
**Gisele Augusto Rodrigues de Oliveira**, Faculty of Pharmacy, Federal University of Goiás (UFG), Brazil
- 12.30 - 13.00 h **Congress closing**
- 14.00 - 19.00 h **Post-Congress Workshop: Practical Training in *In Vitro* Methods for Dermal, Ocular, Lung and Liver Toxicity Testing** (Theoretical session including the Developmental Toxicity model in Convention Center, 20 places available)

## Friday October 21, 2016

- 8.30 - 16.00 h **Post-Congress Workshop: Practical Training in *In Vitro* Methods for Dermal, Ocular, Lung and Liver Toxicity Testing (Continued)**  
(hosted by Bayer CropScience in Sophia Antipolis, 20 places available)



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