L'ORÉAL Research & Innovation

Pierre Fabre Dermo-Cosmétique

Programme

Monday October 17, 2016

8.30 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, Massachussets, *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 / IVTIP Pre-Congress Workshop**
Good Cell Culture Practices
Chairs: Chantra Eskes & Thomas Hartung
(Main auditorium)

12.00 - 12.15 h Development of an OECD Guidance Document on Good In Vitro Method Practice (GIVIMP)
Ann-Charlotte Boström*, European Commission, Joint Research Center (JRC), Ispra, Italy*

12.15 - 12.30 h 21st century cell culture for 21st century toxicology
Thomas Hartung*, Johns Hopkins Bloomberg School of Public Health, CAAT, Baltimore, MD, USA*

12.30 - 12.40 h Application of stem cells and GCCP in mechanistic toxicity screening
Giel Hendriks*, Toxys, Leiden, The Netherlands*

12.40 -12.50 h How to smartly apply GxP regulations to *in vitro* toxicology
Alain Piton*, ALP Quality Systems, Sophia Antipolis, France*

12.50 - 13.00 h Round table discussions

13.00: Opening of Technical / Commercial Exhibition / Poster viewing area

13.00 – 14.00 h Lunch (Exhibition Hall)

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** (Exhibition Hall)

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** (Exhibition Hall)

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 (Exhibition Hall)

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 - 11.50 h A three-dimensional (3D) bioprinted model of the renal proximal tubule for evaluation of drug-induced nephrotoxicity
***Christine Daly**, Organovo Inc., San Diego, California, USA*

11.50 – 12.10 h Exploration of drug-induced mitochondrial toxicity mechanisms on hepatic mitochondria and cultured cells
***Reine Note,** L'Oréal, Research & Innovation, Paris, France*

12.10 - 12.30 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*

12.30 - 14.00 h Lunch and Poster viewing (Exhibition Hall)

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 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 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 (Exhibition Hall)**, sponsored by CEFIC LRI**

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 Improvement of the value of an in vitro endocrine disruption assay by incorporating a metabolizing system
Anne Riu, *L'Oréal, Research & Innovation, Aulnay-sous-Bois, France*

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** (Exhibition hall)

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.
***Thomas Hartung**, Johns Hopkins Bloomberg School of Public Health, CAAT, Baltimore, MD, 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 Focusing on foci: beyond the standard use of Cell Transformation Assays to improve in vitro carcinogenicity testing
***Giulia Callegaro**, Department of Earth and Environmental Sciences, University of Milano - Bicocca , Italy*

12.30 – 14.00 h **Lunch and poster viewing** (Exhibition hall)

14.00 – 15.00 h **Sponsors session**
(Main auditorium)

14.00 - 14.25 h In vitro proximal tubule cell monolayers as a predictive tool for nephrotoxicity using clinical biomarkers
Colin Brown**, Newcastle University, UK for **SOLVO Biotechnology

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14.25 - 14.30 h Cell analysis using image cytometer for precise and specific cell counting, apoptosis measurement, cell cycle analysis, (no flow) cytometry
Cyril Masante, CHEMOMETC

chemometec

14.30 - 14.35 h Gene-editing of primary-like cells by CrispR/CAS9: CD26 knock-out in RPTEC/TERT1 cells as proof of principle
Johannes Grillari, EVERCYTE

14.35 – 15.00 h Characterization of Corning® HepatoCells and 3D Organotypic Spheroid Culture Systems for Predicting Drug-Induced Liver Toxicity
Rongjun ZUO, CORNING LIFE SCIENCES

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** (Exhibition hall), **sponsored by EC-JRC, EURL ECVAM**

16.00 - 16.30 h **French Society of Cellular Pharmaco-Toxicology (SPTC) General Assembly (Fitzgerald room)**

16.30 – 17.00 h **ESTIV General Assembly (Fitzgerald room)**
French Society of Toxicology (SFT) General Assembly (Main auditorium)

17.00 - 18.30 h **Student session 2: Job opportunities and career exploration**
(Fitzgerald room)

19.00 h Departure of shuttle bus from the convention center for the Congress gala dinner

19.30 – 22.30 h **Congress gala dinner** (Marineland, Antibes)

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** (Exhibition hall)

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 Goias (UFG), Brazil*

12.30 - 13.00 h **Congress closing ceremony** (Main auditorium)

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)

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)

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