Highlights

• NAMs and industry perspective
• Case study MCPD
• The pyrrolizidine alkaloid story – a case study to use NAMs in quantitative risk assessment
• Application of NAMs for product development and regulatory registration – EFSA Roadmap for action on NAMs
• IVIVE: Recent developments at EFSA to integrate human variability in toxicokinetics in chemical risk assessment
• PBPK modelling: Building confidence in PBK step by step – an OECD perspective
• Incorporation of in vitro experimental systems for plant-based ingredient evaluation
• Toxicity testing and chemical composition of plant-based materials
• Human biological relevance: Next generation toolbox
• Omics: Transcriptomics

The Experts

Thursday, 7 March 2024

Morning Session 09:00 – 12:50 CET

Welcome address by Akademie Fresenius and introduction by the Chairs
Gina Montoya Parra, Nestlé Research, Switzerland
Martin Wilks, Swiss Centre for Applied Human Toxicology (SCAHT), Switzerland

Human Biological Relevance: Next Generation Toolbox
Danilo Basili, Nestlé Research, Switzerland

IVIVE: Recent developments at the European Food Safety Authority to integrate human variability in toxicokinetics in chemical risk assessment
Jean-Lou Dorne, European Food Safety Authority (EFSA), Italy (invited)

Physiologically based pharmacokinetic (PBPK) modelling: Building Confidence in physiologically based kinetic (PBK) step by step – an OECD perspective
Elena Reale, Nestlé Research, Switzerland

Application of NAMs for product development and regulatory registration – EFSA roadmap for action on NAMs
Sylvia Escher, Fraunhofer Institute for Toxicology and Experimental Medicine (ITEM), Germany

Incorporation of in vitro experimental systems for plant based ingredient evaluation
Maricel Marin-Kuan, Nestlé Research, Switzerland

Toxicity testing and chemical composition of plant based materials
Dieter Schrenk, University of Kaiserslautern-Landau, Germany

Afternoon Session 13:50 – 16:40 CET

In silico: Understanding the concept of similarity and its applications to toxicological research and risk assessment
Denis Fourches, Oerth Bio, USA

A transcriptomic NAM to investigate chemical targets and Point of Departures (PoDs)
Imran Shah, U.S. Environmental Protection Agency (EPA), USA

The pyrrolizidine alkaloid story – a case study to use NAMs in quantitative risk assessment
Catherine Mahony, Procter & Gamble, UK

Case study MCPD
James F. Rathman, Altamira (MN-AM), Columbus, USA

NAMs and industry perspective
Paul Hepburn, Unilever, UK

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Do you have any questions?

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Who will benefit from this conference?

Professionals working in the fields of:

☑ Experimental, computational and regulatory toxicology
☑ Computational modelling
☑ Product development
☑ Human exposure
☑ Risk assessment
☑ Hazard & risk management
☑ Product & human safety

Sectors that should take part:

☑ Food industry
☑ Plant protection industry
☑ Food and veterinary inspection offices
☑ Laboratories
☑ Research institutes
☑ Authorities
☑ Professional associations

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