Workshop

In Vitro to In Vivo Extrapolation for High Throughput Prioritization and Decision Making

U.S. Environmental Protection Agency Research Triangle Park, North Carolina, USA February 17-18, 2016

Final Program

— Day 1 —

Wednesday, February 17, 2016

8:00-8:30:	Registration
	Poster presenters hang up posters
8:30–8:45:	Welcome
	Warren Casey, National Toxicology Program Interagency Center for the Evaluation of Alternative Toxicological Methods (NICEATM)
8:45–9:15:	The EURL ECVAM Toxicokinetics Report and EURL ECVAM Strategy
	Alicia Paini, European Union Reference Laboratory for Alternatives to Animal Testing (EURL ECVAM)
9:15–9:45:	Workshop Background Summaries of Webinars
	John Wambaugh, U.S. Environmental Protection Agency (EPA)
9:45–10:00:	Break
10:00	Session 1: Application in Risk Assessment: What Do We Need for Decision- making and Prioritization?
10:00-10:25	Using In Vitro Data in Quantitative Risk Assessments (QRAs)
	Paul Price, EPA
10:30-10:55	Interindividual Variability in High Throughput Risk Prioritization of Environmental Chemicals
	Caroline Ring, EPA
11:00-11:25	Quantitative Considerations of Dose-Response for IVIVE
	Ted Simon, Ted Simon LLC
11:30-12:15:	Lunch
	On your own in EPA cafeteria

12:15	Session 1 cont'd: Application in Risk Assessment: What Do We Need for Decision-making and Prioritization?
12:15-12:40	Toxicokinetics in Risk Assessment: From Predictive Evaluations to Regulatory Testing
	Mike Bartels, The Dow Chemical Company
12:45-1:10	Development and Application of Biologically Based Dose-Response Modeling for Pregnancy Conditions: Evaluation of Thyroid Active Chemical Exposure During Sensitive Life Stages
	Annie Lumen, U.S. Food and Drug Administration
1:15-1:35	Discussion
1:35-1:45	Break
1:45	Session 2: Metabolism and Excretion
1:45-2:05	Strength and Limitations of In Vitro Xenobiotic Metabolism Assays and In Silico Models
	Stephen Ferguson, National Institute of Environmental Health Sciences (NIEHS)
2:05-2:30	In Silico Screening of Primary Clearance Mechanisms
	John Troutman, The Procter & Gamble Company
2:35-3:00	In Vitro Models for Quantitative Prediction of Hepatobiliary Clearance
	Kim Brouwer, University of North Carolina at Chapel Hill
3:05-3:20	Discussion
3:20-3:30	Break
3:30	Session 3: In Silico Modeling
3:30-3:55:	Predictive Power of PBPK Modeling and In Silico/In Vitro-In Vivo Extrapolation Using GastroPlus™ and ADMET Predictor™ Software Tools
	Grazyna Fraczkiewicz, Simulations Plus, Inc.
4:00-4:25:	In Vitro In Vivo Extrapolation and its Applications in Predicting Pharmacokinetic Population Variability
	Alice Ke, SimCyp, a Certara Company
4:25-4:40	Discussion
4:40-5:00	Day 1 Wrap-up
	Barbara Wetmore, ScitoVation, LLC
5:00-6:00	Poster Session and Reception

— Day 2 —

Thursday, February 18, 2016

8:30-10:00	Breakout Session 1
	Group A: Toxicokinetic (TK) Model Considerations Moderators: Annie Jarabek, EPA; Alicia Paini, EURL ECVAM Group B: In Silico and Non-animal Methods for Obtaining TK Parameters Moderators: Nisha Sipes, NIEHS; John Wambaugh, EPA Group C: Application to Risk Assessment and Prioritization Moderators: Nicole Kleinstreuer, NICEATM; Scott Lynn, EPA
10:00-10:15:	Break
10:15-11:45:	Breakout Session 2
11:45-12:45:	Lunch
	On your own in EPA cafeteria Breakout group moderators meet to coordinate
12:45-1:45	Breakout Group Reports
	Measureable action items and big-picture area of opportunity
1:45-2:30	Discussion and Synthesis
	John Wambaugh, EPA
2:30-3:00	Closing
	Warren Casey, NICEATM