

STATE OF SCIENCE ON DEVELOPMENT AND USE OF NAMs FOR CHEMICAL SAFETY TESTING

Location: Hybrid (Zoom and In-Person at
U.S. Environmental Protection Agency
Research Triangle Park, NC, Auditorium)

Date: November 5-6, 2024

Agenda

Time	Presentation Title	Presenter (Affiliation)
Day 1 (Tuesday, November 5, 2024)		
<i>12:00 pm</i>	<i>Registration</i>	
1:00 pm	Welcome	Maureen Gwinn (EPA ORD)
NAMs Work Plan Implementation and Validation Update		
1:10 – 1:30 pm	Day 1 Overview and NAMs Work Plan Progress Update	Rusty Thomas (EPA ORD)
1:30 – 2:00 pm	ICCVAM Validation Report and NICEATM Activities	Nicole Kleinstreuer (NICEATM)
2:00 – 2:30 pm	Building Confidence in NAMs via Validation Standard Setting in a Revised OECD GD 34	Alison Harrill (EPA ORD)
Exposure NAMs		
2:30 – 3:00 pm	Development and Application of Exposure New Approach Methodologies in EPA's ExpoCast Project	Kristin Isaacs (EPA ORD)
<i>3:00 – 3:30 pm</i>	<i>Break</i>	

Time	Presentation Title	Presenter (Affiliation)
3:30 – 4:00 pm	Integrating Geospatial Exposure Models with NAMs to Evaluate Health Risks from Environmental Chemicals	Kyle Messier (NIEHS)
4:00 – 4:30 pm	Leveraging Non-Targeted High-Resolution Mass Spectrometry to Reveal the Complete PFAS Fingerprint in Maryland	Sin Urban (Maryland Department of Health)
4:30 – 5:00 pm	Human and Environmental Exposure Framework for Biosolids	Carsten Prasse (Johns Hopkins University)
5:00 – 5:10 pm	Session Wrap Up	Annette Guiseppi-Elie (EPA ORD)

Day 2 (Wednesday, November 6, 2024)

9:00 am	Welcome	
9:10 – 9:30 am	Day 2 Overview and Charge	Krystle Yozzo (EPA OCSPP)
Omics		
9:30 – 10:00 am	Collaborative Vision for Omics-Based Chemical Testing	Connie Mitchell (HESI)
10:00 – 10:30 am	Development and Application of Transcriptomics in EPA	Logan Everett (EPA ORD)
10:30 – 11:00 am	Break	
11:00 – 11:30 am	Use of Omics to Inform Development and Safety of New Pesticide Active Ingredients	Jessica LaRocca (Corteva Agriscience)
11:30 am – 12:00 pm	Knowledge Gaps and Opportunities for Omics Data in Environmental Assessments	Chris Martyniuk (University of Florida)
12:00 – 12:30 pm	Fostering Transparency and Reproducibility Using the OECD Omics Reporting Framework	Matthew Meier (Health Canada)

Time	Presentation Title	Presenter (Affiliation)
12:30 – 12:40 pm	Session Wrap Up	Monique Perron (EPA OCSPP)
Lunch		
<i>12:40 – 1:30 pm</i>	<i>Lunch</i>	
In Vitro to In Vivo Extrapolation		
1:30 – 2:00 pm	Recent Developments in High-Throughput Toxicokinetics including Confidence Assessment	John Wambaugh (EPA ORD)
2:00 – 2:30 pm	Translation of <i>In Vitro</i> Effect Concentrations: Equilibrium or Kinetic Distribution Models?	Fabian Fischer (University of Rhode Island)
2:30 – 3:00 pm	Impact of Chemical-PDMS Interactions on IVIVE from Microphysiological Systems	Shane Hutson (Vanderbilt University)
<i>3:00 – 3:30 pm</i>	<i>Break</i>	
3:30 – 4:00 pm	Developing Internal Thresholds of Toxicological Concern	Jon Arnot (Arnot Consulting)
4:00 – 4:30 pm	Existing OECD Guidance on Toxicokinetics, <i>In Vitro</i> -to- <i>In Vivo</i> Extrapolation, and Exploring Future Opportunities	Alicia Paini (EFSA)
4:30 – 4:40 pm	Session Wrap Up	Rusty Thomas (EPA ORD)
Meeting Closing		
4:40 – 5:00 pm	Meeting Wrap Up	Rick Keigwin (EPA OCSPP)