

# 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)       |
|--|--|-------------------------------|
| <b>Day 1 (Tuesday, November 5, 2024)</b>                   |  |                               |
| 12:00 pm   | <i>Registration</i>  |                               |
| 1:00 pm  | Welcome  | Maureen Gwinn (EPA ORD)       |
| <b>NAMs Work Plan Implementation and Validation Update</b> |  |                               |
| 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)      |
| <b>Exposure NAMs</b>                                       |  |                               |
| 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 Giuseppi-Elie (EPA ORD)           |

## Day 2 (Wednesday, November 6, 2024)

| Omics                   |   |   |
|-------------------------|---|---|
| 9:00 am                 | Welcome   |   |
| 9:10 – 9:30 am          | Day 2 Overview and Charge   | Krystle Yozzo (EPA OCSPP)               |
| 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)                 |
| <b>10:30 – 11:00 am</b> | <b>Break</b>  |   |
| 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)                  |
| <b>Lunch</b>                             |  |   |
| <b>12:40 – 1:30 pm</b>                   | <b>Lunch</b>   |   |
| <b>In Vitro to In Vivo Extrapolation</b> |  |   |
| 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)        |
| <b>3:00 – 3:30 pm</b>                    | <b>Break</b>   |   |
| 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-to-In Vivo</i> Extrapolation, and Exploring Future Opportunities | Alicia Paini (EFSA)                         |
| 4:30 – 4:40 pm                           | Session Wrap Up  | Rusty Thomas (EPA ORD)                      |
| <b>Meeting Closing</b>                   |  |   |
| 4:40 – 5:00 pm                           | Meeting Wrap Up  | Rick Keigwin (EPA OCSPP)                    |