

## Programme

Workshop: Mapping Inflammation – Towards Predictive AOPs for Immune-Related Adverse Outcomes for Pharmaceuticals

9 September 2025, 9:00 – 16:00 CEST Representation of Lower Saxony to the European Union, Rue Montoyer 61, B-1000 Brussels, Belgium

08:30	Registration & Coffee
09:00	<b>Welcome &amp; Introduction</b> Workshop goals, agenda & expected outcomes <i>Katherina Sewald (Fraunhofer ITEM) &amp; Laure-Alix Clerbaux (UCLouvain)</i>
09:15	<ul> <li>Session 1: AOPs as Strategic Tools for Inflammatory Responses: Regulatory Point of View</li> <li>Chair: Laure-Alix Clerbaux (UCLouvain)</li> <li>"The AOP Framework: Strategic Tools for Elucidating Biological Mechanisms"- Clemens Wittwehr (JRC) (25 min)</li> <li>"OECD's Experience in AOP and NAMs Development: Regulatory Insights and Case Studies" – Magdalini Sachana (OECD) (25 min)</li> <li>Q&amp;A and short discussion (10 min)</li> </ul>
10:15	<ul> <li>Session 2: Inflammatory AOPs Used for Risk Assessment of Chemicals Chair: Katherina Sewald (Fraunhofer ITEM)</li> <li>"Development of Immune-Related AOPs in PARC" - Birgitte Lindeman (Norwegian Institute of Public Health) (25 min)</li> <li>"Integrative Analysis of Silica-Associated Disease Mechanisms in the EXIMIOUS Project" - Manosij Ghosh (KULeuven) (25 min)</li> <li>"Nanoparticle-Induced Inflammation: Linking Exposure to Chronic Outcomes via AOPs" - Sabina Halappanavar (Health Canada) (25 min)</li> <li>Q&amp;A and short discussion (15 min)</li> </ul>
11:45	Lunch Break
12:30	<ul> <li>Session 3: Mapping inflammation with AOPs and NAMs for Biomedical Stressors - Part 1 Chair: Hannah Morgan (Novartis)</li> <li>"Leveraging inflammatory AOPs in pandemic times: Insights from the CIAO COVID-19 Initiative"- Laure-Alix Clerbaux (UCLouvain) (25 min)</li> </ul>

- "Developing In Vitro Models for Immune-Related Adverse Outcome Prediction: An Introduction to imSAVAR"- *Katherina Sewald (Fraunhofer ITEM)* (15 min)
- "From Mechanism to Prediction: Integrating NAMs with AOPs in Complex Immunopathologies"- Hannah Morgan (Novartis) and Miriam Alb (University of Wurzburg) (25 min)

13:35 Coffee Break

## 13:45 Session 3: Mapping inflammation with AOPs and NAMs for Biomedical Stressors -Part 2

Chair: Hannah Morgan (Novartis)

- An explorable model of an adverse outcome pathway of cytokine release syndrome related to the administration of immunomodulatory biotherapeutics and cellular therapies *Marek Ostaszewski (University of Luxembourg)* (25 min)
- "Synergies between Immunotherapy Safety and AOP/NAM Development"- Scott Wagers (BioSci) (25 min)
- Q&A and short discussion (25 min)

## 15:00 Breakout Session: Towards a Joint Perspectives Workshop Paper

Facilitated small groups work on:

- Mapping inflammation-related AOPs
- Mechanistic gaps & challenges
- NAMs integration
- Regulatory applicability

15:45	Wrap-Up & Next Step
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Katherina Sewald (Fraunhofer ITEM) & Laure-Alix Clerbaux (UCLouvain)

- Summary from breakout groups
- Paper coordination
- Outlook for future collaboration
- 16:00 End

Join us as international experts to explore the **AOP framework** for predicting inflammationdriven toxicities by pharmaceuticals.