

National Academies Committee on Variability and Relevance of Current Laboratory Mammalian Toxicity Tests and Expectations for New Approach Methods (NAMs) for use in Human Health Risk Assessment

Workshop 2
Thursday, May 12, 2022
11 AM- 3:30 PM EST

MEETING OVERVIEW

Animal testing is often used to evaluate the potential risks, uses, and environmental impacts of chemicals. New Approach Methods (NAMs) are technologies and approaches (including computational modeling, in vitro assays, and testing using alternative animal species) that can inform hazard and risk assessment decisions without the use of animal testing.

This one-day virtual workshop will address the committee's charge and inform the consensus report by addressing elements of a scientific confidence framework for NAMs pertinent to risk assessment. A case study approach will be used to illustrate the strengths and weaknesses of traditional and non-traditional approaches and methods. Experts from academia, industry, the government, and other organizations will explore and discuss key cross-cutting themes including: public health goals and risk assessment issues; variability and concordance; in vivo and in vitro adversity; and data for benchmarking new approach methods.

All presentations were pre-recorded and will be made available via the event webpage for viewing before the workshop. Presentations will be briefly summarized during the live discussions.

Welcome and Introductions

11 AM **Welcome**

Introduction to the committee and the charge questions

Kate Guyton, National Academies Project Director

Weihsueh Chiu, Committee Chair

Session I: Mixtures

11:20 **Summary of Pre-recorded Presentations, Panel Discussion, and Committee Q&A**

Moderators: Kim Boekelheide and Weihsueh Chiu

Panelists:

- Carl-Gustaf Bornehag, Karlstad University
- Beate Escher, Helmholtz Centre for Environmental Research
- Chris Gennings, Icahn School of Medicine at Mount Sinai
- Cynthia Rider, National Institute of Environmental Health Sciences
- Tom Webster, Boston University School of Public Health

Break (10 min)

Session II: Developmental Neurotoxicity

12:40 Summary of Pre-recorded Presentations, Panel Discussion, and Committee Q&A

Moderators: Robyn Tanguay and Heather Patisaul

Panelists:

- Elaine Faustman, University of Washington
- Helena Hogberg, National Institute of Environmental Health Sciences
- Tim Shafer, Environmental Protection Agency
- Jason Stein, University of North Carolina, Chapel Hill
- Shirlee Tan, Senior Toxicologist for Public Health, Seattle and King County

Break (10 min)

Session III: Estrogenicity

2:00 Summary of Pre-recorded Presentations, Panel Discussion, and Committee Q&A

Moderator: Nicole Kleinstreuer and Marie Fortin

Panelists:

- Richard Judson, Environmental Protection Agency
- Paul Mermelstein, University of Minnesota
- Ruthann Rudel, Silent Spring Institute
- Laura Vandenberg, UMass Amherst
- Fred Wright, North Carolina State University

Public Comment Period

3:10 Advance registration required and comment time is limited to 2 minutes.

3:30 ADJOURN