# Spring 2020 Webinar Discussion: How to Get to Safer Using Non-Animal Testing Methods – Part II

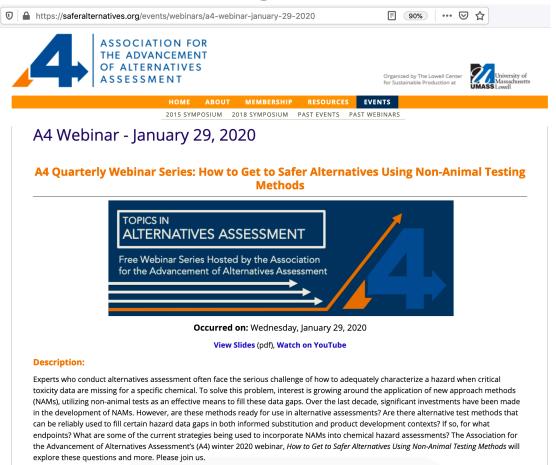
Wednesday, May 20, 2020 9:00 AM - 10:00 AM PT 12:00 PM - 1:00 PM ET

## TOPICS IN ALTERNATIVES ASSESSMENT

Free Webinar Series Hosted by the Association for the Advancement of Alternatives Assessment

#### **WELCOME!**

# Today's A4 webinar <u>discussion</u>: **How to get to safer** using non-animal testing methods – Part II

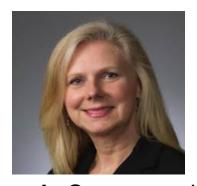


#### Objective for today

How to get to safer using non-animal testing methods – Part II

- Objective: to take a deeper dive together into the application of New Approach Methodologies (NAMs) for use in alternatives assessments, specifically
- Discussion-focused: we want to hear your questions and your experience/insights on the issues being discussed

#### Experts to help the discussion



**Pamela Spencer** – VP Regulatory, Product Stewardship and Quality





**Amy Clippinger** – *Director* 





Margaret Whittaker

– Managing Director

and Chief

Toxicologist

TSXSERVICES



#### Logistics

- Goal is constructive discussion; please listen intently and participate as you can to improve the dialogue
- Please mute your line when not talking
- Please use the "raise your hand" button (in the participant's box) or use the chat box to ask a question or to offer a comment
  - You'll need to take your hand down afterwards
- Use "speaker view" upper right hand viewing options
- The webinar discussion is being recorded and will be posted to the A4 website: <a href="https://www.saferalternatives.org">www.saferalternatives.org</a>
- At the end of the discussion, we have a quick poll to get your input about the webinar – no longer evaluation this time!

#### What are NAMs?

#### New Approach Methodologies, also known as:

- Predictive Toxicology
- Tox21
- Non-animal alternatives
- Alternative test methods



"adopted as a broadly descriptive reference to any non-animal technology, methodology, approach, or combination thereof that can be used to provide <u>information</u> on chemical hazard and risk assessment."

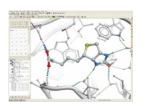
<sup>1</sup>NIEHS A Strategic Roadmap for Establishing New Approaches to Evaluate the Safety of Chemicals and Medical Products in the United States, 2018

#### Types of NAMs

- I. In silico/computational tools
  - QSARs
  - Machine learning
  - High throughput exposure modeling



- Cell cultures
- 2, 3-D organotypic culture systems
- Genomics/transcriptomics
- Organs on a chip
- 3. Frameworks
  - Adverse Outcome Pathways (AOPs)
  - Defined Approaches (DA)
  - Integrated approaches to testing and assessment (IATA)













### Participant Poll – Using NAMs?



#### Question to start us off

Q1: How should we think about NAMs in an alternatives assessment context versus risk assessment or a regulatory safety assessment?

#### Question

Q2: How are NAMs being used in alternatives assessment in combination with animal test data?

#### Question

Q3: What is being done to ensure confidence in the use of NAMs, and to make sure they are being used in a consistent manner?

# NAMs Resources [we'll post these to the A4 website associated with this webinar]

- EPA's List of NAMs: <a href="https://www.epa.gov/assessing-and-managing-chemicals-under-tsca/alternative-test-methods-and-strategies-reduce">https://www.epa.gov/assessing-and-managing-chemicals-under-tsca/alternative-test-methods-and-strategies-reduce</a>
- NTP Interagency Center for the Evaluation of Alternative Toxicological Methods (NICEATM): List of NAMs: <a href="https://ntp.niehs.nih.gov/go/regaccept">https://ntp.niehs.nih.gov/go/regaccept</a>
- PETA International Science Consortium:
- NAMs: <u>www.piscltd.org.uk/alternatives</u>
- Webinars: <a href="www.piscltd.org.uk/webinars">www.piscltd.org.uk/webinars</a>
- Companies: www.piscltd.org.uk/links-resources
- Physicians Committee for Responsible Medicine: NAM Use for Regulatory Application: <a href="https://www.PCRM.org/nura">www.PCRM.org/nura</a>
- Institute for In Vitro Sciences: Annual Workshop (January, 2021): <a href="https://iivs.org/education-outreach/practical-methods-for-in-vitro-toxicology-workshop/">https://iivs.org/education-outreach/practical-methods-for-in-vitro-toxicology-workshop/</a>

#### Upcoming NAMs webinars and meetings

- **May 21:** ICCVAM Public Forum: <a href="https://ntp.niehs.nih.gov/whatwestudy/niceatm/3rs-meetings/pubforum-2020/iccvamforum-2020.html">https://ntp.niehs.nih.gov/whatwestudy/niceatm/3rs-meetings/pubforum-2020/iccvamforum-2020.html</a>
- May 26: ASCCT's/ESTIV's "International computational collaborations for predictive toxicology": <a href="https://register.gotowebinar.com/register/4739262759308645647">https://register.gotowebinar.com/register/4739262759308645647</a>
- May 27: 6th PEP webinar on the use of non-animal skin sensitization methods <a href="https://www.piscltd.org.uk/nam-webinars/">https://www.piscltd.org.uk/nam-webinars/</a>
- May 28: SOT and FDA colloquium on "Integrated Approaches to Testing and Assessment: The Future of Regulatory Toxicology Assessment": <a href="https://www.toxicology.org/events/shm/fda/FDAColloquia\_May28-2020.asp">https://www.toxicology.org/events/shm/fda/FDAColloquia\_May28-2020.asp</a>
- **May 28:** EPA Computational Toxicology Communities of Practice webinar on "High Throughput Screening and Environmental Risk Assessment viewing the forest and a tree": <a href="https://www.epa.gov/research/computational-toxicology-communities-practicehigh-throughput-screening-and-environmental">https://www.epa.gov/research/computational-toxicology-communities-practicehigh-throughput-screening-and-environmental</a>
- **June 18:** Green Chemistry & Engineering (GC&E) Session on Incorporating New Approach Methodologies (NAMs) into chemical assessment as part of the Session title "Information Driving Greener Design: Uncertainty in Estimating Systems Accuracy and its Impact on Decision-Making":

https://www.gcande.org/register/?cid=email\_gci\_direct\_gce\_btm\_05\_08\_20

#### Where to Next?

 Should A4 form a specific affinity group on NAMs to continue the discussion?

#### Possible purpose of such an affinity group:

- Share experience/place for collegial exchange on challenges?
- Work together to outline a framework for the use of NAMs in alternatives assessment?
- Advocate/offer training in NAMs for A4 members?

#### **Announcements**

#### Fall 2020 Virtual Symposium on Alternatives Assessment

Program to be announced soon



A new professional association solely dedicated to advancing the science, practice, and policy of alternatives assessment and informed substitution

#### JOIN THE A4!

Working collaboratively to accelerate the use of safer chemicals, materials, processes, and products.

www.saferalternatives.org

## THANK YOU

