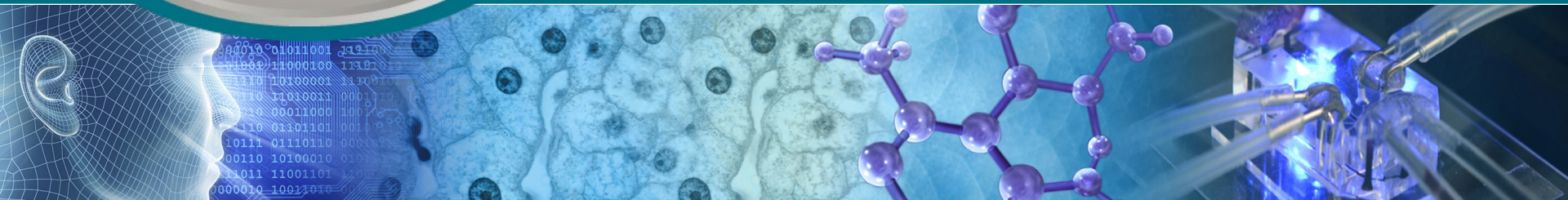




# Interagency Coordinating Committee on the Validation of Alternative Methods



## ICCVAM Activities Under the US Strategic Roadmap

Nicole Kleinstreuer, Ph.D.  
Acting Director, NICEATM

Agency for Toxic Substances and Disease Registry • Consumer Product Safety Commission • Department of Agriculture  
Department of Defense • Department of Energy • Department of the Interior • Department of Transportation  
Environmental Protection Agency • Food and Drug Administration • National Institute for Occupational Safety and Health  
National Institute of Standards and Technology • National Institutes of Health • National Cancer Institute • National Library of Medicine  
National Institute of Environmental Health Sciences • Occupational Safety and Health Administration



# What Is ICCVAM?

## PUBLIC LAW 106-545 (42 U.S.C. 285I-3): ICCVAM Authorization Act of 2000

"To establish, wherever feasible, guidelines, recommendations, and regulations that promote the regulatory acceptance of new or revised scientifically valid toxicological tests that protect human and animal health and the environment while reducing, refining, or replacing animal tests and ensuring human safety and product effectiveness."

- Consumer Product Safety Commission
- Department of Agriculture
- Department of the Interior
- Department of Transportation
- Environmental Protection Agency
- Food and Drug Administration
- Occupational Safety and Health Administration
- National Institute for Occupational Safety and Health
  - Other participants: NCATS , Tox21



- Agency for Toxic Substances and Disease Registry
- National Cancer Institute
- National Inst of Env. Health Sciences
- National Library of Medicine
- National Institutes of Health
- Department of Defense
- Department of Energy
- National Institute of Science and Technology

More information: <https://ntp.niehs.nih.gov/go/iccvam>

### ICCVAM Co-chairs



Anna Lowit  
EPA OPP



Emily Reinke  
Dept. of Defense



Warren Casey  
Executive Director

# What is NICEATM?

- NTP Interagency Center for the Evaluation of Alternative Toxicological Methods (NICEATM)
- Office within the Division of the National Toxicology Program (NTP), National Institute of Environmental Health Sciences (NIEHS)
- Provides scientific and operational support for ICCVAM and ICCVAM workgroup activities
  - Method evaluations
  - Computational tool development
  - Data compilation and review
  - Meeting and teleconference support
- Also supports Tox21 and other NTP projects



More information: <https://ntp.niehs.nih.gov/go/niceatm>



# Purposes of ICCVAM

- Increase the efficiency and effectiveness of U.S. Federal agency test method review
- Eliminate unnecessary duplication of effort and share experience among U.S. Federal regulatory agencies
- Optimize utilization of scientific expertise outside the U.S. Federal government
- Ensure that new and revised test methods are validated to meet the needs of U.S. Federal agencies
- Reduce, refine, or replace the use of animals in testing where feasible

More information: [https://ntp.niehs.nih.gov/iccvam/docs/about\\_docs/pl106545.pdf](https://ntp.niehs.nih.gov/iccvam/docs/about_docs/pl106545.pdf)  
(ICCVAM Authorization Act)



# ICCVAM Workgroups/Expert Groups: April 2020

## WG:

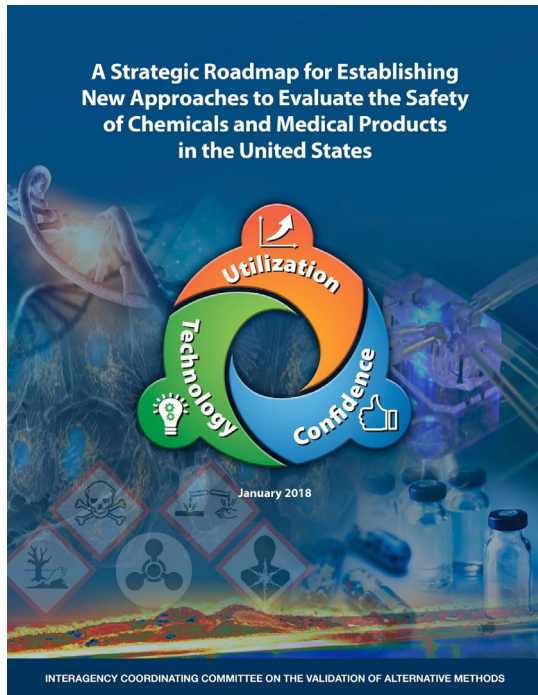
- Acute Toxicity
- Ecotoxicology
- In Vitro to In Vivo Extrapolation
- Nanomaterials
- Read Across
- Metrics

## EG:

- Developmental and Reproductive Toxicology
- Ocular and dermal irritation
- Skin sensitization

[https://ntp.niehs.nih.gov/go/iccvam-wg.](https://ntp.niehs.nih.gov/go/iccvam-wg)

# U.S. Strategy and Roadmap: January 2018



**Connect end users with the developers of alternative methods**



**Establish new validation approaches that are more flexible and efficient**



**Ensure adoption and use of new methods by both regulators and industry**

More information: <https://ntp.niehs.nih.gov/go/natl-strategy>



**Risk  
Assessors**



**Validation  
Organizations**

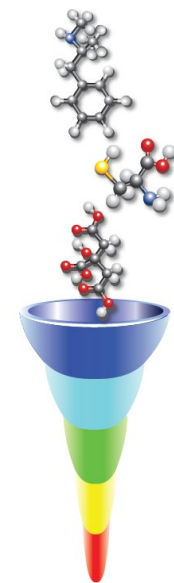


**Method  
Developers**



**Product  
Consumers**

**QSAR  
Modelers**



$$\left[ \text{Skull and Crossbones} \right] = f \left( \text{Gear} \right)$$

# Roadmap Implementation

- Key elements:
  - Define testing needs
  - Identify available tests and computer models
  - Develop integrated approaches to testing and assessment
  - Address both scientific and non-scientific challenges
- Implementation plans developed for acute endpoints:
  - Acute systemic toxicity  
Details at <https://ntp.niehs.nih.gov/go/roadmap-acutetox>
  - Skin and eye irritation  
Details at <https://ntp.niehs.nih.gov/go/roadmap-irrit>
  - Skin sensitization  
Details at <https://ntp.niehs.nih.gov/go/roadmap-sensit>







# ICCVAM Communications

- Communication with stakeholders is a key part of the Strategic Roadmap
- To facilitate this, ICCVAM convenes three public events each year:
  - January: Communities of Practice webinar
  - May: Public Stakeholder Forum
  - September: SACATM Meeting
- May 21<sup>st</sup> Public Forum being held in virtual format:  
<https://www.niehs.nih.gov/news/webcasts/>



# ICCVAM Biennial Progress Report

An official website of the United States government [Here's how you know](#) ✓

**BIENNIAL PROGRESS REPORT**  
**2016-2017**

Search ICCVAM Report

Interagency Coordinating Committee  
on the Validation of Alternative Methods

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ICCVAM facilitates the development, validation, and regulatory acceptance of test methods that replace, reduce, or refine the use of animals in testing.

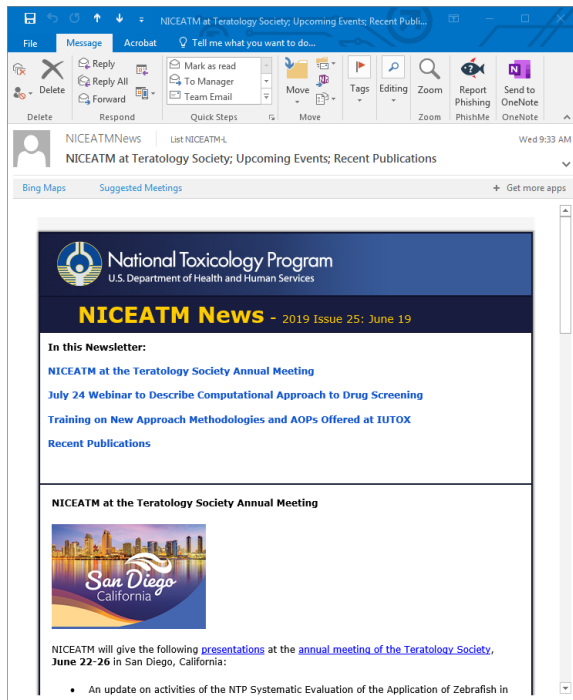
**ICCVAM 2016-2017 Biennial Progress Report** <https://ntp.niehs.nih.gov/go/2017iccvamreport>

The ICCVAM Authorization Act of 2000 directed ICCVAM to prepare a progress report on its first anniversary and biennially thereafter. The latest ICCVAM Biennial Progress Report describes ICCVAM and ICCVAM agency activities during the period from January 2016 through December 2017.

- [Message from NIEHS and NTP](#)
- [Message from NICEATM and ICCVAM](#)
- [Key NICEATM and ICCVAM Accomplishments and Impact](#)
- [NICEATM and ICCVAM Publications, 2016-2017](#)

- Required by the ICCVAM Authorization Act
- Summarizes agency activities to promote alternatives or reduce animal use
- 2016-2017 report at <https://ntp.niehs.nih.gov/go/2017iccvamreport>
- 2018-2019 report will be published in June or July of 2020

# NICEATM News Email List



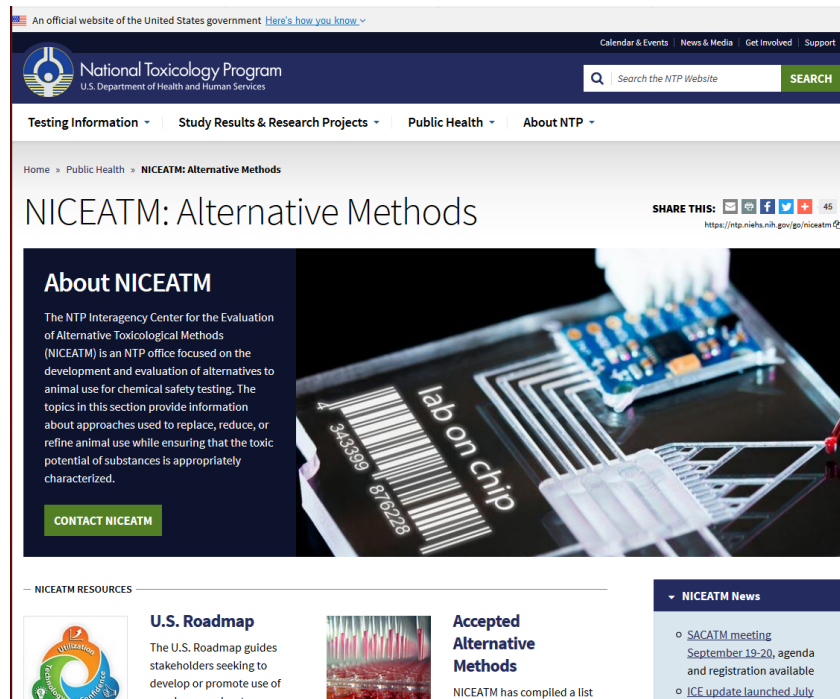
- Announcements of news and events of NICEATM, ICCVAM, ICCVAM agencies, and collaborators
- Over 3000 subscribers
- Sent 3-4 times a month
- Subscribe at <https://list.nih.gov/cgi-bin/wa.exe?A0=niceatm-l>
- Submit news items to [spranklec@niehs.nih.gov](mailto:spranklec@niehs.nih.gov)

# NICEATM Website

- Information on:
  - Past and current ICCVAM and NICEATM projects
  - Accepted alternatives to animal testing
  - Funding opportunities for test method developers
  - Meetings and workshops
- Access to:
  - Relevant regulations and guidelines
  - Reports and publications

Located at

<https://ntp.niehs.nih.gov/go/niceatm>



An official website of the United States government [Here's how you know](#) ▾


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**National Toxicology Program**  
U.S. Department of Health and Human Services

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Home ▸ Public Health ▸ **NICEATM: Alternative Methods**

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<https://ntp.niehs.nih.gov/go/niceatm>

## NICEATM: Alternative Methods

### About NICEATM

The NTP Interagency Center for the Evaluation of Alternative Toxicological Methods (NICEATM) is an NTP office focused on the development and evaluation of alternatives to animal use for chemical safety testing. The topics in this section provide information about approaches used to replace, reduce, or refine animal use while ensuring that the toxic potential of substances is appropriately characterized.


**CONTACT NICEATM**

**labor chip**

3-43339 876228

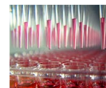
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NICEATM RESOURCES



**U.S. Roadmap**

The U.S. Roadmap guides stakeholders seeking to develop or promote use of novel approaches to...



**Accepted Alternative Methods**

NICEATM has compiled a list

▾ **NICEATM News**

- [SACATM meeting September 19-20](#), agenda and registration available
- [ICF update launched July](#)