

Interagency Coordinating Committee on the Validation of Alternative Methods

ICCVAM 2022-2023 Biennial Report

Scientific Advisory Committee on Alternative Toxicological Methods September 17, 2024

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 Energy
Department of Veterans Affairs Office of Research and Development • Environmental Protection Agency • Food and Drug Administration
National Institute for Occupational Safety and Health • National Institutes of Health • National Cancer Institute
National Institute of Environmental Health Sciences • National Institute of Standards and Technology • National Library of Medicine
Occupational Safety and Health Administration



The ICCVAM Authorization Act of 2000

"ICCVAM shall...prepare reports to be made available to the public on its progress under the Act. The first report shall be completed not later than 12 months after the date of enactment of this Act, and subsequent reports shall be completed biennially thereafter."

Public Law 106–545 106th Congress

An Act

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.

SEC. 3. INTERAGENCY COORDINATING COMMITTEE ON THE VALIDATION OF ALTERNATIVE METHODS.

- (e) DUTIES.—The ICCVAM shall, consistent with the purposes described in subsection (b), carry out the following functions:
- (7) Prepare reports to be made available to the public on its progress under this Act. The first report shall be completed not later than 12 months after the date of the enactment of this Act, and subsequent reports shall be completed biennially thereafter.



12th ICCVAM Report Now Available



https://ntp.niehs.nih.gov/go/2023iccvamreport



Report Outline

- Home
- About NICEATM and ICCVAM
- Technology
 - Assay Development
 - Data Resources
 - Computational Tools Development
 - Tox21 Cross-partner Projects

Confidence

- Assay Application
- Communication and Education
- Computational Tools Applications

Utilization

- Assessments of Agency Needs and Practices
- Initiatives to Replace or Reduce Animal Use
- Policies and Guidance for Implementation of Alternative Methods

Leadership

- Resources for Alternative Methods Development
- International Interactions
- Collaboration

Reference Pages

- Agency Representative in 2022 and 2023
- NICEATM and ICCVAM Publications, 2022-2023
- Glossary of Key Terms
- Acronyms and Abbreviations



Report at a Glance

- Number of articles: 212
- Number of topic tags: 29
- Number of agencies represented: 17



Key Accomplishments

- Publication of updated guidance: "Validation, Qualification, and Regulatory Acceptance of New Approach Methodologies"
- Articles describing agency information needs and testing requirements
- Curation and publication of human skin sensitization database
- Broadening applicability of defined approaches for skin sensitization
- Development of approaches to predict and characterize cardiotoxic potential
- Web tools for chemical exploration and toxicity prediction



Explore Agency Activities





Explore Topic Areas





Live Demo of Website

https://ntp.niehs.nih.gov/iccvamreport/2023





Evolution of the Biennial Report Since 2005

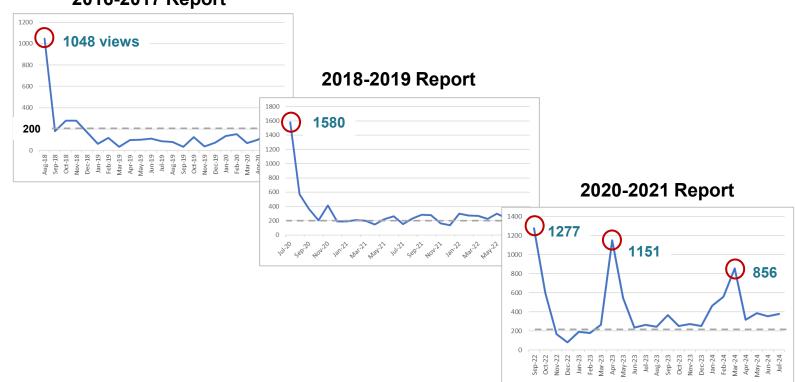
- 2004-2005, 2006-2007: 75-page Word document, no illustrations, focused on workgroup activities
- 2008-2009, 2010-2011: graphics and layout added, still focused on workgroup activities
- 2012-2013, 2014-2015: shift to encompass more agency activities
 - 2014-2015 edition first to be published as a website
- 2016-2017: current website platform implemented; greater focus on agency activities
- 2018-2019: structure updated to reflect Strategic Roadmap; filtering tags implemented





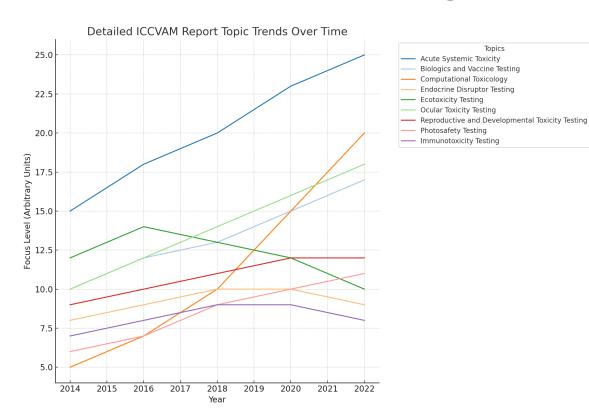
Audience Engagement







Topical Trend Analysis





Regulatory Acceptance and Policy Development

- Steady increase in efforts to validate and accept new methods.
- 2018-2019: Notable progress in international harmonization, working closely with OECD.
- 2020-2021: Policies adapted to accommodate rapid method development.
- 2022-2023: Established frameworks begin to streamline acceptance processes.



Questions?

https://ntp.niehs.nih.gov/go/iccvam