

ACC'S LONG-RANGE RESEARCH INITIATIVE

Enhancing product stewardship and regulatory decision making through innovative science and research



ACC's Long-Range Research Initiative (LRI) addresses chemical safety assessment challenges by pioneering 21st century tools and technologies through innovative and collaborative research and linking that research to policy and practice.



MISSION

ACC's LRI accelerates development of scientific understanding about **health and environmental risks** posed by chemicals and improves the **efficiency and relevance of methods** available for assessing those risks.

VISION

ACC's LRI fosters a **sustainable and healthy future** through its support of **high-quality science** that can inform effective risk-based decision making by industry, regulators, and society.



LRI PRINCIPLES

1. Scientific Excellence
2. Transparency
3. Fair & Unbiased Conduct
4. Relevance to the Chemical Industry



LRI products help improve chemical risk-evaluation methods

- In Vitro to In Vivo Extrapolation (**IVIVE**) to **interpret** in vitro **results in a risk context**
- **Scientific confidence** methods to evaluate and verify performance of **21st century methods**
- **Exposure modeling** of consumers for **risk-based** decision making
- **Advanced assays** coupled to **tiered testing** and evaluation methods to enable efficient **risk-based screening** of 1000's of chemicals
- Web-based **Threshold of Toxicological Concern (TTC)** look-up **values** for **~40,000 substances** for prioritization and data needs



LRI **annual workshops**, co-organized with CEFIC LRI and JCIA LRI, bring together scientific leaders in **industry, academia, and government** to share the latest scientific advances in chemical safety evaluation procedures, and **identify research needs and collaborations** to bridge barriers and foster greater use of these improved methods.



LRI **fosters and thrives on collaboration** among all stakeholders in the scientific field. Nearly half of all LRI publications over the last 10 years involved co-authors in government, and one quarter of scientific references in *EPA's Strategic Action Plan to Promote the Development and Implementation of Alternative Test Methods within the TSCA Program* were LRI-related references.



The **LRI** is the **chemical industry's investment** in research that **affirms its commitment to product safety and stewardship**. LRI funded researchers are widely recognized as **scientific leaders**.

Roughly one third of **LRI publications** were published in the **top 20 journals in toxicology, epidemiology, and environmental sciences**.

ACC'S LONG-RANGE RESEARCH INITIATIVE

LRI is pioneering 21st century chemical safety technologies through innovative and collaborative research.



LRI exemplifies ACC members' commitments to develop advanced scientific methods for applications in TSCA, product stewardship, and sustainability.

- ▶ Creating more efficient risk-based priority setting and risk evaluation tools
- ▶ Expanding understanding of consumer exposures
- ▶ Improving chemical safety testing methods and technologies
- ▶ Using the most up to date knowledge of biological pathways & dosimetry to improve risk assessment methods



ACC LRI PRINCIPLES

LRI has always operated under a set of Principles to guide operations and ensure that LRI-funded research meets the highest possible standards.



SCIENTIFIC EXCELLENCE

The best research proposals and most-qualified scientists will be selected for funding.



FAIR AND UNBIASED CONDUCT

Potential conflicts of interest and bias will be rigorously evaluated.



TRANSPARENCY

Research will be conducted openly and the results will be publicly available.



RELEVANCE TO THE CHEMICAL INDUSTRY

LRI research will focus on improving methods to address the potential health and environmental impacts of chemicals.

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lri.americanchemistry.com