NIEHS Superfund Research Program (SRP)

Michelle Heacock, Ph.D.
Director, Superfund Research Program

January 9, 2026

National Institute of Environmental Health Sciences
Your Environment. Your Health.

SRP Risk e-Learning Webinar Series:
From Cells to Solutions: Emerging Tools for Studying Health and Disease

Session I: Multi-Cellular Systems, Modeling, and Simulations to Advance Environmental Health Research

Jan 9, 1:00 – 3:00 PM EST

Moderator: Chris Duncan, Ph.D., NIEHS

Presenters:

- Margaret Ochocinska, Ph.D., National Institutes of Health
- Brian Johnson, Ph.D., Michigan State University
- Rebecca Fry, Ph.D., University of North Carolina
- Jon Chorover, Ph.D., University of Arizona

Session II: 3D Models and Technologies to Illuminate Biological Effects of Contaminants

Jan 16, 12:00 – 2:00 PM EST

Moderator: Thad Schug, Ph.D., NIEHS

Presenters:

- Bevin Engelward, Ph.D., MIT
- Susan Tilton, Ph.D., Oregon State University
- Arum Han, Ph.D., Texas A&M University

Session III: Innovative Methods for Understanding Chemical Toxicity

Jan 21, 1:00 – 3:00 PM EST

Moderator: Natalia Garcia-Reyero Vinas, U.S. EPA

Presenters:

- Ana Maretti Garcia, Ph.D., University of Southern California
- Guru Ulaganathan, Duke University
- Weihsueh A. Chiu, Ph.D., Texas A&M University

https://bit.ly/CellstoSolution

National Institutes of Health
(U.S. Dept. of Health & Human Services)

National Institutes of Health (NIH)

Bethesda, MD

National Institute of Environmental Health Sciences (NIEHS) Superfund Research Program (SRP)

Research Triangle Park, NC

SRP overview video: https://youtu.be/6yq4CqYrJXA

SRP Mandates Drive the SRP Program

Integrating Health and Environmental/Engineering Sciences

Health Effects

- Advanced techniques to detect, assess, and evaluate the human health effects of hazardous substances

Assessing Risk

- Methods to assess the risks posed by hazardous substances on human health

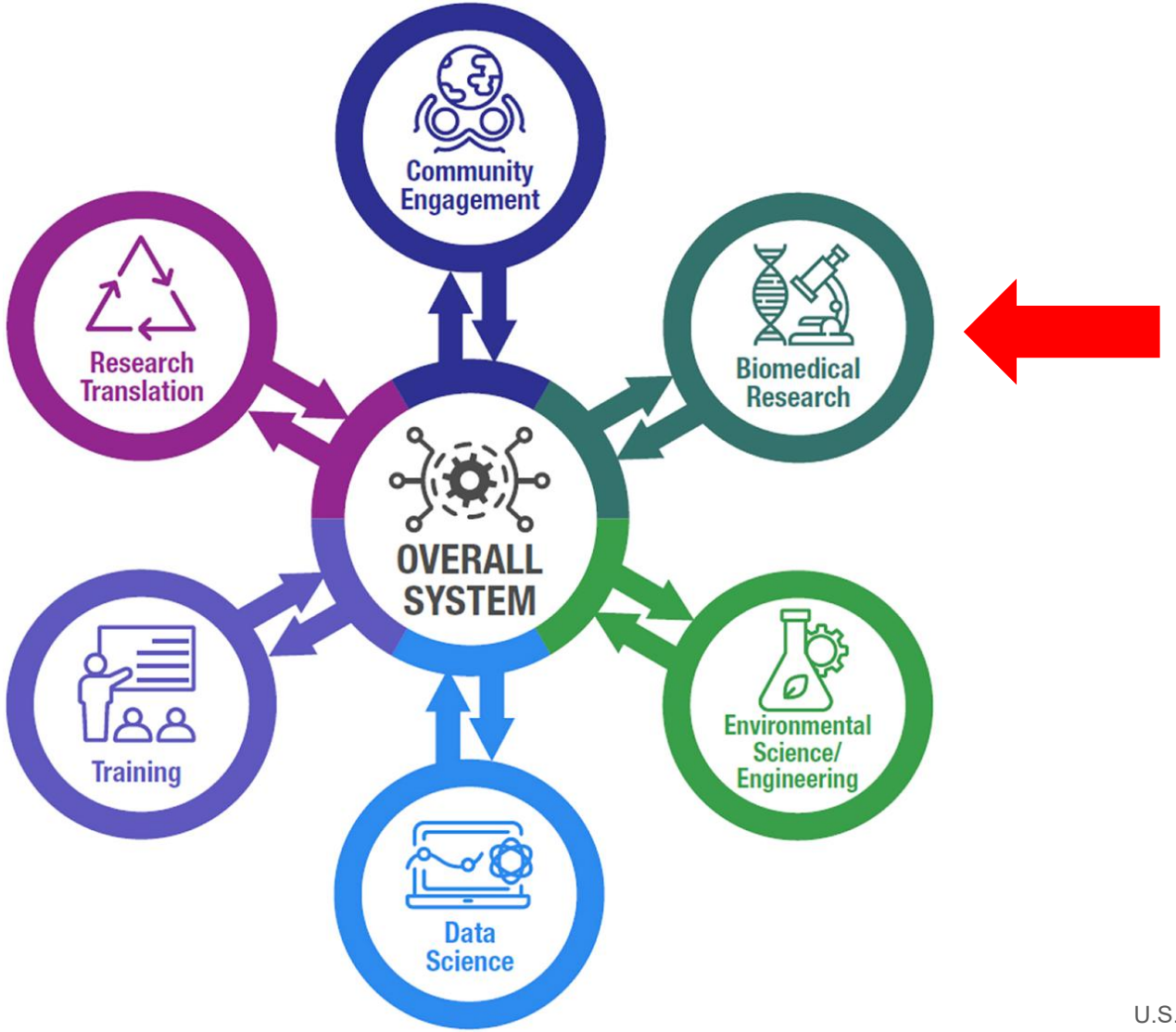
Detection

- Methods and technologies to detect hazardous substances in the environment

Remediation

- Basic biological, chemical, and physical methods to reduce the amount and toxicity of hazardous substances

SRP: Collaborative, Systems- Focused Science



Setting the Stage

Our webinar series will cover how these innovative cell-based tools are being applied to:

Uncover mechanistic insights into how chemicals interact with biological systems

Improve predictive accuracy for human health outcomes

Refine and modernize risk assessment frameworks

Expand the research toolbox available to scientists working to reduce the burden of hazardous substances on communities