National Institute of Environmental Health Sciences
Superfund Research Program

Virtual Technology Fair: Per- and Polyfluoroalkyl Substances

Wednesday, September 24, 2025

1:00 – 2:30 p.m. EDT

Website:
www.niehs.nih.gov/srp

United States Environmental Protection Agency

This Virtual Technology Fair is an EPA and NIEHS collaboration broadcast via Clu-In.org.

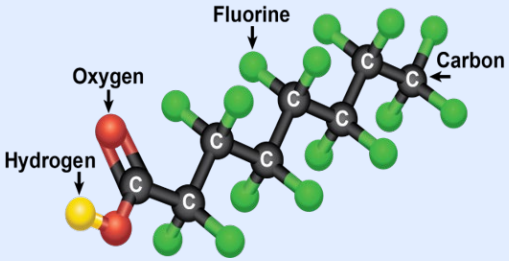
National Institute of Environmental Health Sciences

NIEHS Superfund Research Program (SRP)

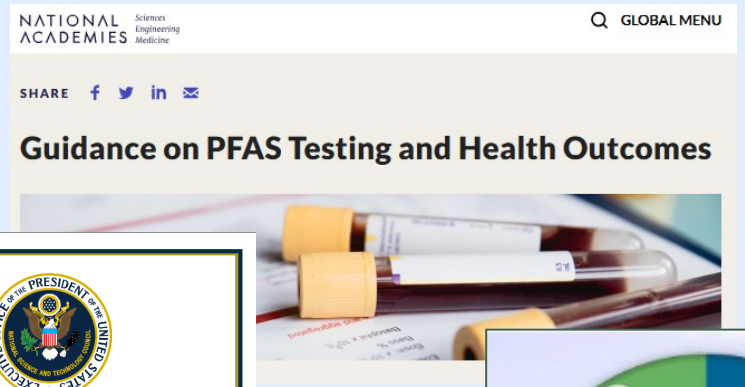
- Established 1986 under SARA Legislation
  - Grant Program (Universities and Small Businesses)
  - Health Effects, Assessing Risk, Detection, Remediation of Hazardous Substances
  - Active Funding Announcements
- Small Business Innovation Research and Technology Transfer Grants (SBIR/STTR)
  - Early-stage research, new/novel approaches – taking risks
  - Phase I (proof of concept) / Phase II (research and development)
  - Multiple Federal Agencies (n = 11)

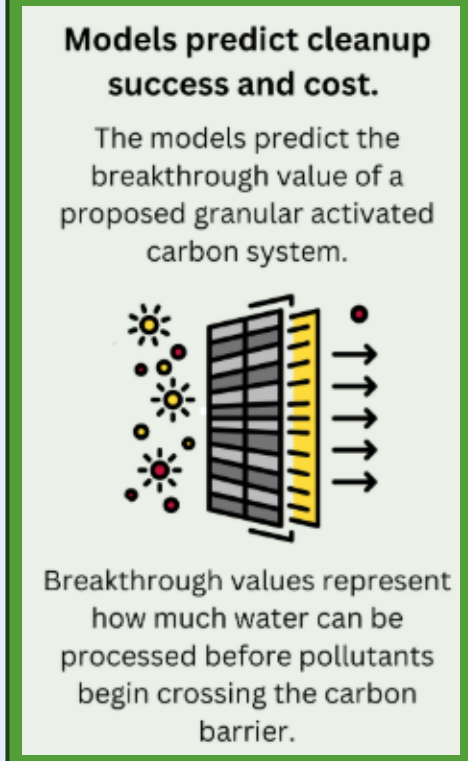
National Institute of Environmental Health Sciences

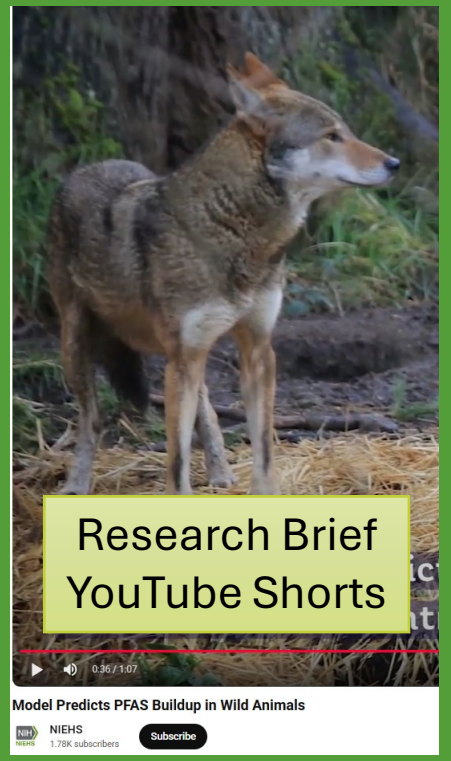
Per- and Polyfluoroalkyl Substances (PFAS)

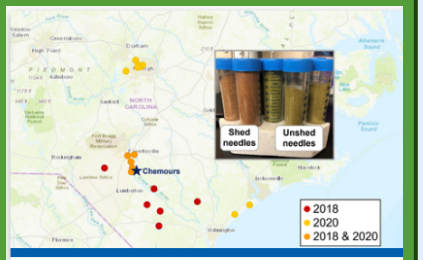


- Resources
  - National Academies of Science: Clinical Guidance (2022)
  - State Coordination: Interstate Technology Regulatory Council (2023)
  - Federal Coordination: Strategic Plan (2024)









ReL 2023: Tools for PFAS Site Characterization

This series focused on research efforts to develop tools for sampling, monitoring, detecting, and characterizing per- and polyfluoroalkyl substances (PFAS) contamination.

Superfund Research Program Highlights

Machine Learning Predicts Efficiency of Micropollutant Removal

Model Predicts PFAS Buildup in Wild Animals

Tools for PFAS Site Characterization Webinar Series

National Institute of Environmental Health Sciences

Today's Presentations

Espira Inc.
Fluorescence-Solid Phase Extraction (F-SPE) Microfluidic Platform for Rapid, Onsite Detection and Identification of PFAS With Machine Learning
Speaker: Jason Beck

Research Inc.
Filtration Media for In-Home PFAS Removal From Drinking Water
Speaker: Steven Dietz

MAX-IR LABS LLC
PFAS Sensor for Remediation and Industrial Wastewater Treatment Optimization Applications
Speaker: Ecatherina Roodenko

Bluegrass Advanced Materials LLC
Development of Smart Flocculants for the Treatment of PFAS Contaminated Water
Speaker: Claire Rowlands

Q/A Panelists

Christopher Zevitas, Sc.D.
U.S. Department of Transportation

Michael Adam
U.S. Environmental Protection Agency