

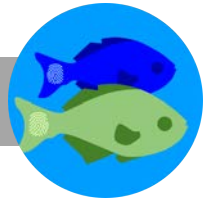


Sources, Transport, Exposure & Effects of PFAS  
UNIVERSITY OF RHODE ISLAND SUPERFUND RESEARCH PROGRAM



# RESEARCH BRIEF

## PROJECT ONE: EXPOSURE



### Environmental Fate & Transport: Exposure Assessment

Led by Elsie Sunderland, PhD, Harvard University John A. Paulson School of Engineering and Applied Science

Aim is to characterize the contribution of contaminated Cape Cod site to downstream ecosystems and develop model for understanding PFAS exposures from fish.



## PROJECT TWO: CRITICAL EFFECTS



### Childhood Risk: Understanding Critical Effects of PFAS in Vulnerable Populations

Led by Philippe Grandjean, PhD, STEEP Co-Director, University of Rhode Island College of Pharmacy; Pál Weihe, MD, Adjunct Professor at The University of the Faroe Islands and Consultant, Head of the Department of Occupational Medicine and Public Health

Aim is to use exposure data from approximately 1000 children in two cohorts to determine sensitive health effects at ages 5 and 15 years.



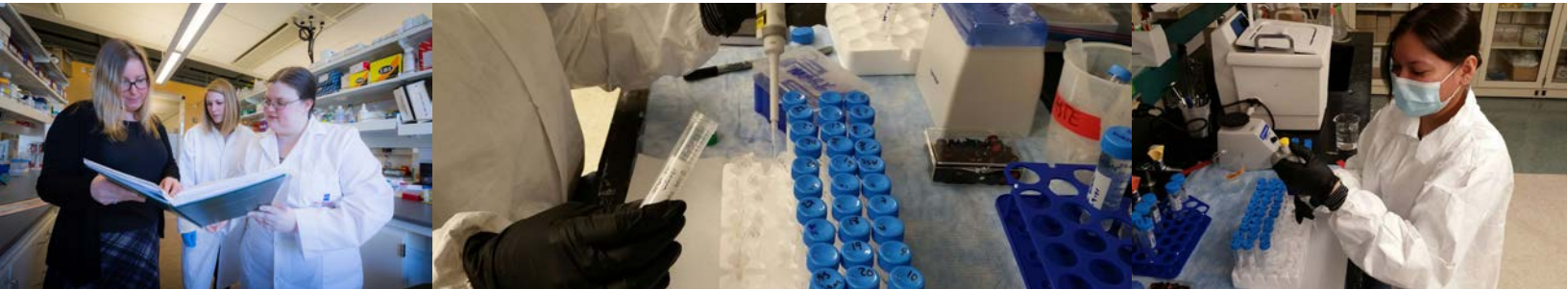
## PROJECT THREE: MECHANISMS



### Metabolic Effects: Mechanisms of PFAS Uptake and Elimination

Led by Angela Slitt, PhD, University of Rhode Island College of Pharmacy

Aim is to identify key mechanisms for PFAS body tissue distribution and elimination, ensure an in-vitro screening tool is available, and seek an accessible approach to intervention.



## PROJECT FOUR: DETECTION



### Detection Tools: Develop Methods for Detection of PFAS in Water and Air

Led by Rainer Lohmann, PhD, STEEP Director, University of Rhode Island Graduate School of Oceanography; Laurel Schaidler, PhD, Silent Spring Institute

Aim is to develop effective remediation filters and field test at PFAS-contaminated sites in RI and on Cape Cod, utilize passive samplers as proxies for PFAS bioaccumulation, and validate air samplers for exposure assessment and outdoor atmospheric transport of PFAS.



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