What Is HHEAR?

HHEAR Human Health Exposure Analysis Resource

The Human Health Exposure Analysis Resource (HHEAR) is a centralized network of exposure analysis services and expertise available to eligible researchers who want to add or expand exposure analysis to their studies of human health. There is no cost to the investigator.

HHEAR was established to:

Advance understanding of the impact of environmental exposures on human health throughout the life course.

Promote characterization of the totality of human environmental exposures called the **exposome**.

HHEAR is a partnership spanning the National Institutes of Health (NIH), funded by the National Institute of Environmental Health Sciences; the National Cancer Institute; the National Heart, Lung, and Blood Institute; and the NIH Environmental Influences on Child Health Outcomes Program.

To learn more, visit the HHEAR website: https://hhearprogram.org.

Data Repository

The HHEAR Data Center provides:

Large data repository: Stores epidemiologic and biomarker data for more than 80,000 samples.

Environmental exposure data: Covers more than 130 environmental chemical exposures.

Health outcome data: Includes information on a wide variety of conditions, including asthma, neurocognitive function, and growth and development.

Life course approach: Explore the link between environmental chemicals and health outcomes using data from more than 50 studies.

Utilizing the HHEAR Data Repository:

De-identified data for your research: Access publicly available datasets to perform your own analysis of environmental health data.

Search and download customized datasets: Easily find relevant HHEAR studies and **explore harmonized data**. Our data-level search empowers users to create customized datasets that meet their exact needs.

Standardized vocabulary for data pooling: Utilize the publicly accessible **HHEAR ontology**, a common language with clear definitions, to seamlessly combine data from different studies in your analysis.

See the impact: Explore published research papers that leverage HHEAR data to gain insights into how others are using the repository (https://hheardatacenter.mssm.edu/resource/get).

Accessing the HHEAR Data Repository:

New data added regularly! New data is continually added to the HHEAR Data Center's public repository as projects are completed and harmonized, ensuring you have access to the latest findings. Visit the data center on the HHEAR website at https://hheardatacenter.mssm.edu.