UW EDGE Center

Interdisciplinary Center for Exposures, Diseases, Genomics & Environment

Pilot Projects, Year 30 (2025-2026)

Defining novel gene X environment interactions that lead to embryonic heart defects, Lisa Maves, University of Washington School of Medicine, Seattle Children's Research Institute

Development of a phthalate-disrupted placental multi-omic network, Alison Paquette and Samantha Lapehn, Seattle Children's Research Institute, Center for Developmental Biology and Regenerative Medicine

Residential proximity to harmful algal blooms and risk of incident dementia in a Southern California electronic health record cohort, Joan Casey and Marissa Childs, University of Washington Department of Environmental and Occupational Health Sciences

Collectively addressing lead contamination of drinking water in Washington State schools, Katya Cherukumilli, University of Washington Department of Human Centered Design & Engineering

Pilot Projects, Year 29 (2024-2025)

Effects of Air Pollution on Traumatic Brain Injury, Shelly Erickson, PI, VA Puget Sound Health Care System and Division of Gerontology and Geriatric Medicine, Department of Medicine

Engaging community to overcome barriers to wildfire smoke exposure protection in early life, Catherine Karr and Christine Loftus, Co-PIs, DEOHS, School of Public Health

Determining the health and environmental impacts of a neighborhood-wide sanitation intervention in Quelimane, Mozambique, Karen Levy and Kelsey Jesser, Co-PIs, DEOHS, School of Public Health

Novel lung-on-a-chip microphysiological system for assessing adverse effects of diesel exhaust exposures, Judit Marsillach and Ed Kelly, Co-PIs, DEOHS, School of Public Health and Department of Pharmaceutics, School of Pharmacy

Pilot Projects, Year 28 (2023-24)

ADDRESS

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4225 Roosevelt Way NE, Suite 100
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The University of Washington EDGE Center is supported by the National Institutes of Health under award number: P30ES007033

Characterization of volatile organic compounds (VOCs) exposure and related protein adductomic signatures to evaluate a local public health intervention in safer degreasers, Dr. Diana Ceballos/Dr. Judit Marsillach, Co-PIs, DEOHS, School of Public Health

Bioinformatic tools for assessing health risk of antimicrobial resistance within microbiomes, Dr. Erica Fuhrmeister, PI, DEOHS, School of Public Health

A Pilot Study Characterizing Traffic-Related Air Pollution Exposure and Cellular Aging in a Sample of Marginalized Mother-Child Dyads, Dr. Jonika Hash, PI, Child, Family, & Population Nursing, School of Nursing

Application Title: Spokane Extreme Heat Risk Intervention Stakeholder Synthesis Symposium, (SEHRI S3), Dr. Tania Busch Isaksen, PI, DEOHS, School of Public Health

A zebrafish quantitative genetics platform for studying gene-environment interactions, Dr. Yijie Geng, PI, DEOHS, School of Public Health

Pilot Projects, Year 27 (2022-23)

Metagenomic Approach to Decipher Mechanisms of Cadmium Neurotoxicity, Dr. Julia Cui, PI, DEOHS, School of Public Health

Single-Cell Characterization of the Testes-Immune Axis for Improved Hazard Assessment of Chemical Mixtures, Dr. Elaine Faustman, PI, DEOHS, School of Public Health

Studying individual variability in inflammatory gene expression response to wildfire exposures using a self-administered blood sampling device, Dr. Ashleigh Theberge, PI, DEOHS, Department of Chemistry

Elucidate the effects of increased usage of quaternary ammonium compound disinfectants on human microbiome during COVID-19, Dr. Libin Xu, PI, DEOHS, Department of Medical Chemistry

Pilot Projects, Year 26 (2021-22)

Community Engagement to Identify Priorities, Policies, and Scenarios for Modeling the Health Benefits of a Just Transition, Dr. Jeremy Hess, PI, DEOHS, School of Public Health

Unraveling Gut Microbiome-Mediated Alterations in Human CYP3A4 Expression

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and Activity, Dr. Qingcheng Mao, PI, Department of Pharmaceutics

Spatiotemporal Refinement for Environmental Circadian Misalignment, Dr. Trang VoPham, PI, Department of Epidemiology, School of Public Health

Pilot Projects, Year 25 (2020-21)

Characterization of Urban Nano-Particles, Dr. Elena Austin, PI, DEOHS, School of Public Health

Airway Morphology as an Effect Modifier of Diesel Exhaust Inhalation in a Murine Model, Dr. Robb Glenny, PI, Pathology, PI, Division of Pulmonary, Critical Care and Sleep Medicine

Characterizing perinatal neurotoxicant exposures in a dense urban informal settlement in Nairobi: A community-engaged approach to foster new Maternal Child Environmental Health research and interventions in Kenya, Dr. Catherine Karr, PI, DEOHS, School of Public Health

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