**OTHER SUPPORT**

**Brokamp, Richard “Cole”**

**ACTIVE SUPPORT**

**Federal Sponsored Awards**

1R01LM013222-01A1 (Brokamp) 08/01/2020 – 07/31/2024 4.6 calendar

NIH / NLM                                                                  $1,351,500

*A Framework for Automated and Reproducible Geomarker Curation and Computation at Scale*

This award will create a framework for developing a standardized, free and open source library of reproducible and computable geomarkers that will enhance the efficiency and collaboration of biomedical researchers utilizing place-based data at scale.

ECHO (Brokamp) 09/01/2019 – 08/31/2021 2.7 calendar

ECHO/OIF /Duke $62,840

*Decentralized and Reproducible Geomarker Assessment for Multi-Site Studies*

Goal: The goal is to create a software tool to facilitate the exposure assessment of gridded spatiotemporal data based on residential addresses and date of birth without sharing or exposing protected health information.

R01HL141286-02 (Szczesniak) 01/18/2019 – 12/31/2023 2.7 calendar

NIH $276,296

*Mapping environmental contributions to rapid lung disease progression in cystic fibrosis*

Goal: The overall objective of this research is to leverage a rich CF registry, extant national and local environmental data sources and prospectively collected study data to accurately forecast the onset of rapid decline progression.

U01HG011172 (Harley) 04/01/2020 – 03/31/2025 0.6 calendar

NIH / NHGRI                                                                    $911,091

*Polygenic Risk Scores for Healthier African American Families*

We will ascertain and enroll 800 African American mothers with newborn babies along with available fathers and siblings and develop polygenic risk scores and incorporate them into genomic risk estimates for Asthma, Atopic Dermatitis, Obesity, Hypertension, Hypercholesterolemia, Premature Birth, and Breast Cancer. We will cope with the ethics of returning results and for selected situations intervene for mitigate risk.

1R01ES031054-01A1 (Brunst) 07/01/2020 – 04/31/2025 1.4 calendar

NIH / NIEHS                                                                $3,039,706

*Epigenetics, Air Pollution, and Childhood Mental Health*

This project utilizes data from three longitudinal birth cohorts to examine the impact of air pollution on the epigenome and the onset of childhood anxiety and depression symptoms. DNA methylation biomarkers are investigated to advance our understanding of potential molecular pathways involved in air pollution neurotoxicity and/or anxiety and depression pathophysiology.

**Commercial/Industry Sponsored Awards**

Not applicable.

**Foundation/Association Awards**

Not applicable.

**Support from any Foreign, Non-Domestic Entity**

Not applicable.

**CHMC Institutional Awards**

Not applicable.

**Travel Support from Foreign Entities or to Foreign Conferences**

Not applicable.

**Private or Philanthropic Support**

Not applicable.

**External Lab or Office Space**

Not applicable.

**Scientific Materials**

Not applicable.

**Post-docs/students, visiting faculty/scholars supported from domestic or foreign funding sources**

Not applicable.

**PENDING SUPPORT**

**Federal Sponsored Awards**

1R01HG011411-01 (Mersha) 07/01/2020 – 06/30/2025 1.2 calendar

NIH /                                                                   $3,871,139

*Epigenome-wide variations and socio-environmental exposures in African American asthmatic children*

This award will determine the relationship between asthma severity, the epigenome, environmental exposures, and community characteristics in a cohort of African American asthmatic children.

R01 (Cecil, Ryan, Yolton) 09/01/2020 – 08/30/2025 1.8 calendar

NIH / NIEHS                                                         $413,580

*Air Pollution, Mental health and Neuroimaging in Adolescents*

This project will merge two ongoing, prospective cohorts, the Cincinnati Childhood Allergy and Air Pollution Study (CCAAPS) and the Health Outcomes and Measures of the Environment (HOME) Study, to examine the role of air pollution on adverse mental health and neuroimaging outcomes and in early adolescence.

AN:4446180 (Brokamp) 04/01/2021 – 03/31/2025 1.8 / 3.6 / 4.2 calendar

NIH / NIEHS $1,129,325 YR 01 / YR 02 / YR 03 & 04

*Pediatric Psychiatric Emergency Department Utilization and Fine Particulate Matter: A Case-Crossover Study to Identify Susceptible Subpopulations*

This project will determine if short-term air pollution contributes to psychiatric exacerbations in children and adolescents. Furthermore, subpopulations susceptible to short term air pollution related psychiatric health effects will be identiﬁed based on individual- and community-level characteristics, co-exposures, time, and space.

**Commercial/Industry Sponsored Awards**

Not applicable.

**Foundation/Association Awards**

Not applicable.

**Support from any Foreign, Non-Domestic Entity**

Not applicable.

**CHMC Institutional Awards**

Not applicable.

**Travel Support from Foreign Entities or to Foreign Conferences**

Not applicable.

**Private or Philanthropic Support**

Not applicable.

**External Lab or Office Space**

Not applicable.

**Scientific Materials**

Not applicable.

**Post-docs/students, visiting faculty/scholars supported from domestic or foreign funding sources**

Not applicable.

**OVERLAP**

There is no scientific overlap between funded and pending projects. Where budget overlap occurs between funded projects, Dr. Brokamp will make appropriate adjustments to reduce his effort in order not to exceed a total committed effort of 12.0 calendar months across all funded projects and work with appropriate institutional administration to resolve any conflicts.