Current Research Support

National Science Foundation (NSF), Biological Integration Institutes
Funding: $12,500,000 ($652,859 to Wrighton): 08/01/2020-7/31/2025
Project: BII-Implementation: The EMERGE Institute, integrating research and training to characterize EMergent Ecosystem Response to ChanGE
Time Commitment: 0.50 months/year
Principle Investigator: Virginia I. Rich, Ohio State University

National Institutes of Health (NIH), National Institute of Allergy and Infectious Disease (NIAID)
Funding: $1,278,774 1/1/2019 – 12/31/2023
Project: Microbial Ecology of the Inflamed Intestine
Time commitment: 1.5 months/year
Principal Investigators: Brian Ahmer, Ohio State University

National Science Foundation (NSF), Division of Biological Infrastructure
Funding: $381,588 09/01/2018-8/31/2021
Project: Next Generation Informatics to Elucidate Viral Ecology and Ecosystem Impacts in Nature
Time commitment: 0.50 months/year
Principle Investigator: Matthew Sullivan, Ohio State University

Department of Energy (DOE), Biological Systems Sciences Division
Funding: $330,662 09/01/2020-08/31/2023
Project: Finding the Missing Pieces: Filling Annotation Gaps that Impede the Translation of Microbial Genomes to Models of Ecosystem Function
Time commitment: 0.50 months/year
Principle Investigator: Chris Miller, University of Colorado Denver

Department of Energy (DOE), Earth and Environmental Systems Sciences Division
Funding: $196,958 09/01/2020-08/31/2023
Project: Functional-type modeling approach and data-driven parameterization of methane emissions in wetlands
Time commitment: 0.25 months/year
Principle Investigator: Gil Bohrer, Ohio State University

National Science Foundation (NSF), Molecular and Cell Biology, CAREER AWARD
Funding: $941,000 09/01/2018-12/31/2022
Project: Career: Unlocking Microbial Condensed Tannin Resistance Mechanisms: Scaling from Enzymes to Biomes
Time commitment: 0.75 months/year
Principle Investigator: Kelly Wrighton, Colorado State University

Department of Energy (DOE), Biological Systems Sciences Division, CAREER AWARD
Funding: $794,000 05/15/2018-05/14/2022
Project: Genomes to Ecosystem Function: Targeting Critical Knowledge Gaps in Soil Methanogenesis and Translation to Updated Global Biogeochemical Models
Time commitment: 0.75 months/year
Principle Investigator: Kelly Wrighton, Colorado State University

Department of Energy (DOE), Biological Systems Sciences Division
Funding: $450,000 09/01/2018-08/31/2021
Project: Novel Microbial Routes to Synthesize Industrially Significant Precursor Compounds
Time commitment: 0.75 months/year
Principle Investigator: Robert Tabita, Ohio State University

National Institutes of Health (NIH), National Institute of Diabetes and Digestive and Kidney Disease (NIDDK)
Funding: $450,000 05/01/2018-4/30/2021
Project: Alternative Routes of Gut Microbial Methylamine Metabolism that May Limit Trimethylamine N-Oxide, a Trigger for Atherosclerosis
Time commitment: 0.6 months/year
Principle Investigator: Joseph Krzycki, Ohio State University

Pacific Northwest National Laboratory (DOE), Subsurface Biogeochemical Research
Funding: $200,000 10/01/2018-09/30/2020
Project: Development of a Microbiome Resource to Discern the Microbial Impacts across Dynamic River Systems
Time commitment: 0.25 months/year
Principle Investigator: James Stegen, Pacific Northwest National Laboratory

ExxonMobil (Industry)
Funding: $75,000 09/01/2018-8/31/-2021
Project: Illuminating Currently Cryptic Viral Controls in Ecosystems
Time commitment: 0.1 months/year
Principle Investigator: Kelly Wrighton, Colorado State University

Pending Proposals for Research Support

Department of Energy (DOE), DOE-ASCR
Funding: $265,951 09/01/2020-08/31/2023
Project: Optimizing Existing DOE-Investments in FAIR Systems to Enable AI-Driven Modeling
Time commitment: 0.75 months/year
Principle Investigator: James Stegen, Pacific Northwest National Lab

National Science Foundation (NSF)
Funding: $2,982,266 09/01/2020-08/31/2023
Project: MTM 2: iSpecies: Integrating Scalable Predictions for Evolution of Communities in the Engineered Subsurface
Time Commitment: 0.5 months/year
Principle Investigator: Kelly Wrighton, Colorado State University

Expired Proposals for Research Support in the past 2 years or relevant to testimony

Dupont Microbial Control (Industry)
Funding: $163,840 08/01/2018-07/31/2020
Project: Leveraging Microbial Metabolisms to Influence Production Chemistry and Well Longevity during Energy Extraction

Time commitment: 0.25 months/year
Principle Investigator: Kelly Wrighton, Colorado State University

Department of Energy (DOE), Small Business Innovation Research (SBIR)
Funding: $45,000 02/19/2019-12/18/2019
Project: Integrated Management and Analysis Platform for Multi Domain Site Data
Time commitment: 0.12 months/year
Principle Investigator: Roelof Versteeg, Subsurface Insights

National Institutes of Health (NIH), National Institute of Allergy and Infectious Disease (NIAID)
Funding: $221,806 12/01/2014-11/30/2019
Project: Salmonella, Gut Colonization Resistance, and Fructose-Asparagine
Time commitment: 1.0 months/year
Principle Investigator: Brian Ahmer, Ohio State University

National Science Foundation (NSF), Dimensions of Biodiversity
Funding: $499,827 02/01/2014-1/31/2017
Project: Microbial Biodiversity and Functionality in Deep Shale and its Interfaces (DSIs)
Time commitment: 0.5 month/year
Principle Investigator: Paula Mouser, Ohio State University