



USF Senate Research Council

Interdisciplinary Research Awards (IDRA) Awarded

The USF Senate Research Council announce the 2024 Interdisciplinary Research Awards. An investment totaling more than \$1.5 million in awards supporting four collaborative research and two research infrastructure grants. Proposal teams included 31 faculty across 6 colleges.

CLEAR Water Quality: Convergent Learning to Enhance the Analysis of Risk on Water Quality

Awarded: \$152,057 – Collaborative Program

PI: Katherine Alfredo, College of Engineering, Civil and Environmental Engineering

Co-Investigators:

Mahmooda Pasha, College of Public Health, WHO Collaborating Centre on Social Marketing and Social Change

Christian Wells, College of Arts and Sciences, Anthropology

Infrastructure for Experimental Research in Cryptography

Awarded: \$316,556 – Infrastructure Direct

PI: Jean-Francois Biasse, College of Arts and Sciences, Mathematics & Statistics

Co-Investigators:

Kwang-Cheng Chen, College of Engineering, Electrical Engineering

Rouzbeh Behnia, IT Cybersecurity, Muma College of Business, Information Systems and Management

Giacomo Micheli, College of Arts and Sciences, Mathematics and Statistics

Lukas Koelsch, College of Arts and Sciences, Mathematics and Statistics

Mehran Mozaffari Kermani, College of Engineering, Computer Science and Engineering

Acquisition of a Orbitrap IQ-X Mass Spectrometer System with Vanquish Flex UHPLC System for Nucleic Acid Adductomics

Awarded: \$94,231 – Collaborative Program

PI: Marcus Cooke, College of Arts and Sciences, Molecular Biosciences

Co-Investigator:

Stanley Stevens, Professor, College of Arts and Sciences, Molecular Biosciences

Proposal for Facility Upgrade at USF Genomics - Bridging High-Res Technological Gaps

Awarded: \$265,122 – Infrastructure Direct

PI: Hong Yuan Jiang, College of Public Health, Genomics

Co-Investigator: Min Zhang, Scientific Researcher, College of Public Health, Genomics Core

Protection of donor hearts and transplanted graft function by control of Na/K ATPase activity

Awarded: \$250,096 – Collaborative Program

PI: Ruisheng Liu, USF Health, Molecular Pharmacology & Physiology

Co-Investigators:

Lucian Lozonschi, Morsani College of Medicine, Surgery

Wei Chen, College of Arts and Sciences, Physics

Feng Cheng, Taneja College of Pharmacy, Pharmaceutical Science



Purchase of gas and vapor physisorption/chemisorption analyzers as an equipment upgrade for the X-ray Core Facility

Awarded: \$421,975 – Infrastructure Direct

PI: Ioannis Spanopoulos, College of Arts and Sciences, Chemistry

Co-Investigators:

John Kuhn, College of Engineering, Chemical, Biological, & Materials Engineering

Hariharan Srikanth, College of Arts and Sciences, Physics

Randy Larsen, College of Arts and Sciences, Chemistry

Sarina Ergas, College of Engineering, Civil & Environmental Engineering

Jing Wang, College of Engineering, Electrical Engineering