

## **2016-2017 COR LARGE GRANTS**

Sangtae Berry

Chemical Engineering & Material Sciences

Project title: A Noble Approach to Enhance the Conductivity of Solid Electrolytes for Low-Temperature Solid Oxide Fuel Cell Applications: Optimization of Lattice Strain by Nano-structuring.

\$24,501.00

Ozcan Campbell

Chemistry

Project title: Shedding Light on Undergraduates' Unsatisfactory Problem Solving Performance in Stem: The Role of Knowledge Structure, Knowledge Retention, and Misconceptions

\$21,318.00

Kyrylo Collins

Chemistry

Project title: Heat Conductors Better Than a Diamond: Myth or Reality?

\$12,921.00

Glenda Drew

Design Program

Project title: Stories of Solidarity

\$20,000.00

Qi Farmer

Environmental Toxicology

Project title: Developing a Novel Aerosol Mass Spectrometry Method for Studying the Links Between Chemical Exposures and Toxicological Responses for Air Pollutants.

\$25,000.00

Ian Grandia

History

Project title: The Bleeding Edges: Massacres and the Making of Russian Imperialism, 1800-1917

\$10,834.00

Garving Gulacar

Mathematics

Project title: Implementing Fast Algorithms for Solving Practical Problems

\$11,500.00

Glenn Jones

MED: Ophthalmology

Project title: Optogenetic Control of Reactive Oxygen Species in a Model of Geographic Atrophy in Age-Related Macular Degeneration

\$25,000.00

Yu-Jui Kim

MED: Pathology & Laboratory Medicine

Project title: Colon Cancer Carcinogenesis Controlled by Bacterial and Host metabolites

\$25,000.00

Jon Kovnir  
MED: Physiology & Membrane Biology Anesthesiology & Pain Medicine  
Project title: Probing Life's Transistors with Fluorescence Microscopy  
\$25,000.00

Jian-Jian Li  
MED: Radiation Oncology  
Project title: CD47 As the Binary Radio-immunotherapy for Breast Cancer  
\$25,000.00

Diana Luli  
MED: Surgery  
Project title: Minimally Invasive Photo-Nanotherapeutics for the Treatment of Infantile Hemangiomas  
\$25,000.00

Sean Pan  
Microbiology & Molecular Genetics  
Project title: Understanding the Origins of Autoimmune Disease: Unraveling the Mechanisms of DNA Extrusion by Neutrophils During Immune Responses  
\$25,000.00

Liza Sack  
Native American Studies  
Project title: None provided  
\$25,000.00

Dong Solari  
Physics  
Project title: Disorder Induced Spin Generation in Topological Insulators  
\$25,000.00

Alison Wan  
Plant Sciences  
Project title: Applying a Bioinformatics Strategy to Genome and Transcriptome Datasets to Elucidate the Evolutionar Origin of Root Nodule Symbiosis in Plants  
\$12,813.00

Bradford Yiu  
Political Science  
Project title: Latinos Beliefs About Stereotypes and Discrimination  
\$24,413.00

Emily Yu  
School of Education  
Project title: Autism Reading Intervention Project: Pilot Study  
\$25,000.00

Ning Zhang  
Textiles & Clothing  
Project title: A Smart Bandage in Functional Compression Management for Deep Vein Thrombosis  
\$15,000.00