2017 Research Investment Fund Awardees

Discovery and Development Awards
For early stage projects or those that require additional development prior to proposal resubmission

Neural Dynamics underlying the emergence of auditory categorization and learning
Gavin Bidelman (Communication Sciences & Disorders)

Karnak Hypostyle Hall Project: Structural & 3D Modeling of 134 Giant Columns
Peter Brand (History) Adeel Abdelnaby (Civil Engineering), Joshua Roberson (Art History)

Tunable neuronal scaffold biomaterials through covalent peptide bonding to gold-coated crosslinked aerogels
Firouzeh Sabri (Physics & Materials Science), Will Alexander (Chemistry)

Functional Evaluation of a New Dynamic Ankle Orthosis
Max Paquette (Health Studies)

Algorithm Development to Minimize Adverse Effects of Time Delays on Smart Power Grid
Hasan Ali (Electrical & Computer Engineering)

Identification of Nipsnap1 protein complexes in brain
Ramin Homayouni (Biology), Daniel Baker (Chemistry)

Imaging Cell Motility in 3-D Collagen Gels by Structured Illumination Digital Holographic Microscopy
Omar Skalli (Biology), Ana Doblas (Electrical & Computer Engineering)

Contributions of Epistemic Beliefs to Team Science & Graduate Education
Jason Braasch (Psychology), Chrysanthe Preza (Electrical & Computer Engineering), Deborah Tollefsen (Philosophy)

Optical Array Profiling of Cancer-Derived Exosomes
Xiaohua Huang (Chemistry)

One More at the River: From MLK to BLM
Roxane Coche, Joe Hayden (Journalism), Aram Goudsouzian (History)

Team Initiation Awards
For new, interdisciplinary faculty teams to develop a track record of collaboration and generate preliminary data/publications

Novel thermoelectric materials: computational, experimental and engineering approach
Xiao Shen & Jingbiao Cui (Physics & Materials Science), Lenwood Fields (Engineering Technology)

Community-Based Strategies for Urban Resilience to Extreme Rainfall Events
Claudio Meier (Civil Engineering), Dorian Burnette (Earth Sciences), Laura Saija (Planning)

Congruence and Conflict in Linguistic and Biometric Markers
Leah Windsor (Institute for Intelligent Systems), George Deitz (Marketing & Supply Chain), Alistair Windsor (Math)

Direct Inkjet Printable Low-voltage Active Flexible Electronic Component Fabrication
Bashir Morshed (Electrical & Computer Engineering), Tomoko Fujiwara (Chemistry), Robert Hewitt (Engineering Technology), Frank Andrasik (Psychology)

Novel Approach to Hypertension: Characterizing Circadian Regulation of Blood Pressure in Diurnal Nile Grass Rats
Andrew Liu, David Freeman & Karyl Buddington (Biology), Richard Bloomer & Marie van der Merwe (Health Studies)

Interdisciplinary Innovations Awards
For bold new efforts that expand cross-disciplinary research capacity in an area where we can be nationally competitive

Eczema Prevention in Children (EPIC)
Tom Sutter (Biology), Su Chen (Math), Marie van der Merwe (Health Studies), Wilfried Karmaus & Hongmei Zhang (Public Health)

Financial Infrastructure Stability and Cyber-security (FISC)
PK Jain & Tom McInish (Finance), Dipankar Dasgupta (Computer Science), Segun George (Math), Leah Windsor (Institute for Intelligent Systems), Robin Poston & Mark Gillenson (Business Information Technology)

Smart City Innovation Hub
Charles Santo (Planning), Sayba Mishra & Mike Golias (Civil Engineering), Eddie Jacobs (Electrical & Computer Engineering), Lan Wang (Computer Science), Carmen Astorne-Figara (Economics)