12-2017

ORED Communicator - December 2017

Office of Research and Economic Development, Florida International University

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December

- **December 1, 11 am to 12 noon**, AHC3 #205, *Hide and Seek: How to DNA Glycosylases Locate Oxidatively Damaged DNA Bases Amidst a Sea of Undamaged Bases*, presented by Susan Wallace
- **December 1, 12 to 1 pm**, AHC1 #110, *Critical Challenges in Treating the Most High-Risk Suicidal Adolescents: Results from a Recently Completed RCT*, presented by Anthony Spirito
- **December 1, 1 to 3 pm**, AHC4 #402, *Managing your Approved IRB Study*, free but requires registration
- **December 1, 2 to 3 pm**, ECS 241, *IHMC Research: National Language Processing, Cyber Security and Big Data*, presented by Bonnie Borr
- **December 2, 2 to 4 pm**, Vizcaya Village Garage, *Changing Waters*, a conversation with experts about water quality in Biscayne Bay and the impact of sea level rise in South Florida’s coastal communities—free event but RSVP is required
- **December 4, 1 to 2 pm**, AHC4 #402, *Biopharmaceutical lecture* presented by Hing C. Wong
- **December 6, 11 am to 12 noon**, WC 130, *Fossil fuels and fish: how physiology can provide insight into underlying mechanisms in toxicology* presented by Rachael Heuer
- **December 7, 8 to 10 am**, MARC 330, *Unite to Ignite with WiTech Miami Council*, sponsored by StartUP FIU—free event but RSVP is required
- **December 8, 12 to 1 pm**, AHC1 #110, *Intervention for Children with ADHD and Co-existing Dyslexia*, presented by Rosemary Tannock
- **December 8, 12:30 to 1:30 pm**, AHC4 #402, *Linking pH, Temperature, K+ Concentration and Conformation for the DNA i-Motif*, presented by Richard Sheardy
- **December 12, 1 to 3 pm**, AHC5 #300, *Health Informatics and Health Systems Joint Faculty and Doctoral Student Seminar*, presented by Tianyan Hu
- **December 13, 12 to 1 pm**, *Citrus Health Network*, *Recent studies in dosing and sequencing pharmacological and behavioral treatments for ADHD: When They Go High, We Go Low*, presented by William Pelham
- **December 14 and 15, 8 am to 4 pm**, Broward County Convention Center, *9th Annual Southeast Florida Regional Climate Leadership Summit*, registration required

January

- **January 9, 12 to 1 pm**, AHC5 #300, *Health Informatics and Health Systems Joint Faculty & Doctoral Student Seminar presented by Pouyan Esmaeil Zadeh
- **January 25 and 26**, Miami Airport Marriott, *Resilient Utility Coalition Summit*, payment required at time of registration
- **January 26, 2 to 3 pm**, ECS 241, *Understanding the Human in Human-Robot Teams*, presented by Ruzena Bajcsy

February

Every Friday, the Department of Biomedical Engineering will feature an expert in applied cardiovascular biology. Confirmed speakers include Dr. Sheldon Weinbaum, Dr. Masanori Aikawa, Dr. David Merryman, and Dr. Frederick Schoen. Miami Heart Month will be highlighted by a special Heart Day Symposium on Friday, February 16, which will include a poster session from the Miami cardiovascular research community. If you would like to participate, please contact Josh Hutcheson (jhutches@fiu.edu).
Awards Received—October 2017

FIU researchers were awarded $13,463,333 in October 2017. Below is a listing of awards received:

**Agoulnik, Alexander**
Herbert Wertheim College of Medicine
Human and Molecular Genetics
Bristol-Myers Squibb
Initial
8th International Conference on Relaxin and Related Peptides 2018 $5,000

**Alluri, Priyanka**
College of Engineering and Computing
Civil and Environ Engineering
Florida Department of Transportation
Initial
A Data-Driven Approach to Implementing Wrong-Way Driving Countermeasures $145,000

**Barbetta, Patricia**
College of Arts, Sciences & Education
Teaching and Learning
Florida Department of Education
Initial
2017-2018 Exceptional Student Education (ESE Tuition Support Program) $307,331

**Boswell, Kevin**
College of Arts, Sciences & Education
Biology
University of Miami
Initial
Developing acoustic classification methods for reef fish species in the Gulf of Mexico $18,887

**Boukerrou, Lakhdar**
College of Arts, Sciences & Education
Institute of Water and Environment
US Agency for International Development
Increase
West Africa Water Supply $23,013

**Brewster, Luther G**
Herbert Wertheim College of Medicine
Humanities Health and Society
Trinity Church
Initial
Generation 2050 $9,242

**Caballero, Amaury**
College of Engineering and Computing
Electrical and Computer Engineering
Miami-Dade County Public Schools
Initial
Electrical wiring Program for SED Students $61,600
Casas, Alexander D
Division of Finance University Police
U.S. Department of Justice
Initial
FIUPD Body-Worn Camera Policy and Implementation Program $82,500

Cevallos, Fabian
College of Engineering and Computing
Civil and Environmental Engineering
City of Doral
Increase
Transportation Engineering Technical and Research Support Services $14,212

Chatfield, David C
College of Arts, Sciences & Education
Chemistry
U.S. Nuclear Regulatory Commission
Supplemental
Faculty Development for Radiochemistry Ph.D. Program at FIU $419,970

Chen, Jiuhua
College of Engineering and Computing
Mechanical and Mat Engineering
National Science Foundation
Initial
Study of water solubility in bridgmanite at the lower mantle conditions $237,934

Cramer, Elizabeth D
College of Arts, Sciences & Education
Teaching and Learning
U.S. Department of Education
Supplemental
Project OPERATE 2015-2020 $81,690

Cramer, Elizabeth D
College of Arts, Sciences & Education
Teaching and Learning
U.S. Department of Education
Supplemental
Project OPERATE 2015-2020 $168,310

Crowl, Todd Alan
College of Arts, Sciences & Education
Institute of Water and Environment
National Science Foundation
Increase
CREST: Center for Aquatic Chemistry and the Environment CACE $71,065

Crowl, Todd Alan
College of Arts, Sciences & Education
Institute of Water and Environment
National Science Foundation
Increase
CREST: Center for Aquatic Chemistry and the Environment CACE $109,104
Danziger, Zachary  
College of Engineering and Computing  
Biomedical Engineering  
FIU Foundation  
Initial  
Post-SCI Bladder Reflex Conditioning with Pelvic Neuromodulation $141,503

Devieux, Jessy  
Robert Stempel College of Public Health Social Work  
Health Promotion and Disease Prevention  
University of Florida  
Continuation  
Effects of experimentally-induced reductions in alcohol consumption $193,378

Dinehart, Laura H  
College of Arts, Sciences & Education  
School of Education  
U.S. Department of Education  
Initial  
2017-2022 Upward Bound Math-Science FIU $245,899

Dinehart, Laura H  
College of Arts, Sciences & Education  
School of Education  
U.S. Department of Education  
Initial  
2017-2022 Upward Bound Math-Science FIU $18,000

Dulikravich, George S  
College of Engineering and Computing  
Mechanical and Materials Engineering  
Texas A&M University  
Initial  
ROA-2016 / D.5 University Leadership Initiative $101,413

Eaton, Asia  
College of Arts, Sciences & Education—Psychology  
Society Psychological Study Social Issue  
Initial  
Amending Florida law to increase justice for victims of nonconsensual porn $2,000

Faria, Jose A  
College of Engineering and Computing  
Moss School of Construction  
U.S. Department of Labor  
Initial  
Susan Harwood Targeted Topic Training Grant in Construction $155,000

Fava, Nicole M  
Robert Stempel College of Public Health Social Work  
School of Social Work  
Children's Trust  
Initial  
Trauma-informed screening & treatment in community university clinic $284,141
Fonseca, Brian  
Steven J. Green School of International & Public Affairs  
J Gordon Institute Public Policy and Citizenship  
CACI International Inc.  
Supplemental  
CERDEC Flight Activity (CFA) System Engineering Support  
$25,000

Fu, Zhaohui  
Academic Affairs - Other Units  
GIS Center and Digital Collection  
City of Coral Gables  
Initial  
Sea Level Rise Impact Web Tool  
$135,300

Furton, Kenneth G  
Academic Affairs - Other Units  
Provost and Executive Vice President for Academic Affairs  
National Science Foundation  
Increase  
ADVANCE Institutional Transformation at FIU 2016-2021  
$56,000

Gan, Cheng-Tin  
College of Engineering and Computing  
Civil and Environmental Engineering  
Florida Department of Transportation  
Supplemental  
Effectiveness of Stationary Police Vehicles with Blue Lights in Freeway Work Zones  
$53,068

Gan, Cheng-Tin  
College of Engineering and Computing—Civil and Environmental Engineering  
Florida Department of Transportation  
Initial  
Development of 2018 Florida Transit Information System (FTIS)  
$82,130

Gan, Cheng-Tin  
College of Engineering and Computing  
Civil and Environmental Engineering  
Florida Department of Transportation  
Initial  
Development of 2018 Florida Transit Information System (FTIS)  
$20,532

Gan, Cheng-Tin  
College of Engineering and Computing  
Civil and Environmental Engineering  
Florida Department of Transportation  
Initial  
ITS Research, Computer, and Miscellaneous Support (Two #462-07)  
$150,000

Garber, David B  
College of Engineering and Computing  
Civil and Environmental Engineering  
Oceans Technology Group  
Increase  
Behavior of Algae-Based Binder Concrete  
$10,007
Gladstone, Susan  
Academic Affairs - Other Units  
Jewish Museum of Florida (JMOF)—FIU  
Florida Division of Cultural Affairs  
Initial  
JMOF General Support Grant FY17-18  $47,368

Gonzalez, Juan E  
Nicole Wertheim College of Nursing and Health Sciences  
Nursing Anesthesiology  
Health Resources & Services Administration  
Increase  
FIU Nurse Anesthetist Traineeship  $2,800

Graziano, Paulo  
College of Arts, Sciences & Education  
Psychology  
National Institute of Mental Health  
Initial  
Biosignatures of Executive Function and Emotion Regulation in young children with ADHD  $712,346

Gudavalli, Ravi Krishna  
Academic Affairs - ARC Applied Research Center  
Savannah River Nuclear Solutions LLC  
Initial  
Technetium sulfide as a potential immobilization form for Tc-99 in the environment  $201,011

Guilarte, Tomas R  
Robert Stempel College of Public Health & Social Work  
Robert Stempel CPHSW Deans Off  
Environmental Health Sciences  
Continuation  
Pb Grant: NMDA Receptor Function in Lead Neurotoxicity  $570,256

Ibanez, Gladys E  
Robert Stempel College of Public Health Social Work  
Epidemiology  
University of California Davis  
Initial  
The Acceptability and Feasibility of the iPad version of the NIH Neurocognitive  $4,900

Ilcheva, Maria  
Steven J. Green School of International & Public Affairs  
Metropolitan Center  
City of Miami Beach  
Initial  
Economic Analysis: Potential Short and Long-Term Impact of Reducing  $85,000

Iyengar, Sundararaj Sitharama  
College of Engineering and Computing  
Computer Information Sciences  
Army Research Office  
Initial  
Research, Education and Workforce Training for Engagement in the Cyber-learning  $339,957
Jayachandran, Krishnaswamy  
College of Arts, Sciences & Education  
Earth and Environment  
National Institute of Food & Agriculture  
Continuation  
Broadening Agriculture Science Education (BASE) for Hispanic Students  
$250,000

Katsenovich, Yelena  
Academic Affairs - Other Units  
ARC Applied Research Center  
Savannah River Nuclear Solutions LLC  
Initial  
Management of Hanford Low Activity Waste Off-Gas Condensate  
$363,730

Kavallieratos, Konstantinos  
College of Arts, Sciences & Education  
Chemistry  
Savannah River Nuclear Solutions LLC  
Supplemental  
Development of an Alternative Solvent Extraction Technology for  
$390,972

Lagos, Leonel  
Academic Affairs - ARC Applied Research Center  
U.S. Army  
Increase  
Cyber Attack Orchestration Test Bed for Automation and Threat Monitoring  
$529,722

Lagos, Leonel  
Academic Affairs - Other Units  
ARC Applied Research Center  
Savannah River Nuclear Solutions LLC  
Initial  
Evaluation of a Dexterous Robotic Manipulator for Semi-Autonomous Glove  
$397,803

Laird, Angela Marie Richmond  
College of Arts, Sciences & Education  
Physics  
National Institute on Drug Abuse  
Increase  
Adolescent Brain Cognitive Development (ABCD): FIU  
$674,525

Li, Chenzhong  
College of Engineering and Computing  
Biomedical Engineering  
Everglades Foundation  
Need to Correct  
Paper based Disposable Biosensors for Trace Analysis of Organophosphate  
$20,000

Li, Hebin  
College of Arts, Sciences & Education  
Physics  
U.S. Army  
Initial  
Acquisition of an ultrafast amplified laser system for research and education  
$404,835
Madhivanan, Purnima
Robert Stempel College of Public Health Social Work
Epidemiology
University of California Berkeley
Initial
Global Health Equity Scholars Program $165,501

Madhivanan, Purnima
Robert Stempel College of Public Health Social Work
Epidemiology
University of California Berkeley
Initial
Global Health Equity Scholars Program $5,000

Maidique, Modesto A
College of Business Administration
Department of Management and International Business
Miami-Dade County
Initial
Chapmanville Leadership Development Program Second Cohort $245,000

McCord, Bruce
College of Arts, Sciences & Education—Chemistry
U.S. Department of Justice
Initial
An Epigenetic multiplex amplification for the determination of age and body fluid type $368,512

Mills, De Etta kay
College of Arts, Sciences & Education
Biology
U.S. Department of Justice
Initial
Non-destructive, enhanced collection and recovery form difficult forensic samples $286,931

Mohammed, Osama A
College of Engineering and Computing
Electrical and Computer Engineering
University of Arkansas
Continuation
An Interdisciplinary Approach to Integratable, Composable and Evolvable $124,619

Mohammed, Osama A
College of Engineering and Computing
Electrical and Computer Engineering
University of Arkansas
Continuation
An Interdisciplinary Approach to Integratable, Composable and Evolvable $86,639

Mohammed, Osama A
College of Engineering and Computing
Electrical and Computer Engineering
University of Arkansas
Continuation
An Interdisciplinary Approach to Integratable, Composable and Evolvable $63,226
Montas-Hunter, Sonja S  
Academic Affairs - Other Units  
Student Access and Success  
Florida Department of Agriculture and Co Increase  
Summer Food Service Program (ETS, EV3, UBMS) 2014-2018  

Montas-Hunter, Sonja S  
Academic Affairs - Other Units  
Student Access and Success  
Florida Education Fund  
Initial  
2017-2018 COE South Florida Center of Excellence at FIU

Ozgen, Mesut  
College of Communication, Architecture + The Arts  
Music  
FIU Foundation  
Initial  
2018 GuitART Festival KAC Grant

Ozgen, Mesut  
College of Communication, Architecture + The Arts  
Music  
Florida Division of Cultural Affairs  
Initial  
2018 Guitar Festival Specific Cultural Projects Grant

Pala, Nezih  
College of Engineering and Computing  
Electrical and Computer Engineering  
University of Central Florida  
Initial  
UAV-based Defective Solar Panels Detection and Maintenance

Pelham Jr, William E  
College of Arts, Sciences & Education  
Psychology  
University of Pittsburgh  
 Continuation  
Neural Correlates of symptoms and functioning in young adults with childhood ADHD

Pomeroy, Jordana  
Academic Affairs - Frost Art Museum  
Florida Division of Cultural Affairs  
Initial  
FY2017-2018 General Program Support: Discipline-Based (Museum)

Prospect, Sean Antonio  
College of Arts, Sciences & Education  
Community Engagement  
Florida Department of Education  
Initial  
Project HOPE (FIU After School All Stars) 2017-2018
Prospect, Sean Antonio
College of Arts, Sciences & Education—Community Engagement
Florida Department of Education
Initial
Project OPPORTUNITY (FIU After School All Stars) 2017-2018 $104,528

Prospect, Sean Antonio
College of Arts, Sciences & Education
Community Engagement
Florida Department of Education
Initial
Project PRIDE (FIU After School All-Stars) 2017-2018 $128,215

Prospect, Sean Antonio
College of Arts, Sciences & Education
Community Engagement
Florida Department of Education
Initial
Project CLAW (FIU After School All Stars) 2017-2018 $43,305

Prospect, Sean Antonio
College of Arts, Sciences & Education
Community Engagement
Florida Department of Education
Initial
Project IMPACT (FIU After School All-Stars) 2017-2018 $100,000

Prospect, Sean Antonio
College of Arts, Sciences & Education
Community Engagement
Florida Department of Education
Initial
Project PRIDE (FIU After School All-Stars) 2017-2018 $32,053

Prospect, Sean Antonio
College of Arts, Sciences & Education
Community Engagement
Florida Department of Education
Initial
Project PANTHER (FIU After School All Stars) 2017-2018 $225,768

Prospect, Sean Antonio
College of Arts, Sciences & Education
Community Engagement
Florida Department of Education
Initial
Project PANTHER (FIU After School All Stars) 2017-2018 $56,441

Prospect, Sean Antonio
College of Arts, Sciences & Education
Community Engagement
Florida Department of Education
Initial
Project HOPE (FIU After School All Stars) 2017-2018 $48,639
Ramella Roman, Jessica
College of Engineering and Computing
Biomedical Engineering
Texas A&M University
Initial
NST ERC: Precise Advanced Technologies and Health Systems for $17,400

Raptis, Raphael
College of Arts, Sciences & Education
Chemistry
Savannah River Nuclear Solutions LLC
Initial
Development of Separations Methods to Address the Challenge of Organic $391,090

Raymond, Andrea D
Herbert Wertheim College of Medicine
Immunology
Brigham and Women's Hospital
Initial
Development of circulating exosomes as a theranostic of neurodisease progression $73,250

Sadjadi, Seyedmasoud
College of Engineering and Computing
Computer Information Sciences
Georgia Institute of Technology
Increase
VIP Program at Florida International University $35,000

Sibley, Margaret
Herbert Wertheim College of Medicine
Psychiatry and Behavioral Health
Institute of Education Sciences
Continuation
Developing a Peer to Peer Behavioral Intervention for High School Students with ADHD $537,485

Sibley, Margaret
Herbert Wertheim College of Medicine
Psychiatry and Behavior Health
FIU Foundation
Initial
Cognitive and Behavioral Predictors of Success at the High School Transition $50,000

Trucco, Elisa M
College of Arts, Sciences & Education—Psychology
Alcohol Abuse and Alcoholism
Continuation
Environment, Genes, and Temperament on the Development of Alcohol Use Disorder $169,204

Tse Dinh, Yukching
College of Arts, Sciences & Education
Chemistry
National Institutes of Health
Continuation
Control of DNA Topology $335,635
Volakis, John
College of Engineering and Computing
Engineering Deans Office
National Science Foundation
Initial
NCS-FO: Collaborative Research: Wireless and Fully-Passive Multi-Channel Neural $569,087

Volakis, John
College of Engineering and Computing
Engineering Deans Office
National Science Foundation
Increase
A New Class of Millimeter-wave Phased Array for Secure High Data Rate Systems $67,389

Volakis, John
College of Engineering and Computing
Engineering Deans Office
Regents of the University of New Mexico
Initial
MURI: Innovative use of Metamaterials in Confining, Controlling, and Radiating $131,550

Volakis, John
College of Engineering and Computing
Engineering Deans Office
Lockheed Martin
Initial
Numerical Study of High Impedance Electromagnetic Bandgap Structures $75,000

Wdowinski, Shimon
College of Arts, Sciences & Education
Earth and Environment
NASA Goddard Space Flight Center
Initial
Cascading hazards: Understanding triggering relations between wet tropical cyclones $77,037

Funding Opportunities
ORED has a new, improved and interactive webpage for funding opportunities. Please visit http://research.fiu.edu/funding/#current.

Limited Submissions
Current limited submission opportunities are available at http://research.fiu.edu/funding/limited-submissions/.
## Contact ORED Senior Leadership

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**OFFICE OF RESEARCH AND ECONOMIC DEVELOPMENT**

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For updates, corrections, suggestions, and/or general comments, please email Mercedes.rodriguez@fiu.edu