Spring 5-2016

May 2016 ORED Communicator

Office of Economic Research and Development, Florida International University

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April was a very busy month for eight FIU I-Corps teams who participated in 4-hour workshops during each of the five Friday’s in April. Each FIU I-Corps team included an Entrepreneurial Lead (EL), a business mentor (M) and a Principal Investigator (PI).

Instructors from the University of Central Florida included Dr. Thomas O’Neal, Associate Vice President for Research and Commercialization, and Mr. Oscar Rodriguez, Director of Startups. Peter Hernández, Director of Technology Management and Commercialization, and Ms. Elizabeth Garami, Licensing Manager, served as instructors from FIU. Each team was supported by individuals with business experience from the community or within FIU who served as the mentors.

The FIU mini I-Corps program covered topics such as conducting customer discovery interviews, using the business model canvas collection tool (which is part of the Lean Launchpad methodology), developing value propositions, and determining product-market fit. The teams learned that they need to “Get Out of the Building” in order to determine whether their technologies can be commercialized.

Each week, the teams were required to conduct a certain number of customer discovery interviews in order to understand better the “pains and gains” of customers, and determine whether their respective technologies could help alleviate any “pains” or create some “gains” for the potential customers. The team’s EL presented what was uncovered during customer discovery interviews and whether a pivot was indicated relative to the team’s original business hypothesis.

The five-week FIU mini I-Corps program concluded with a final day presentation by each team’s EL and a two-minute video prepared by each team. At the conclusion of the training, each team received a mini-grant of $2,550 to conduct additional interviews or develop a Minimal Viable Product (MVP). These small grants also create alignment with the NSF, enabling the teams to apply to the national NSF I-Corps teams program.

Although it was a challenging program, talking to numerous potential customers provided each team with a keener understanding of how their respective technologies could fit in the marketplace.

Immediately following the completion of the FIU mini I-Corps training program, one team started the application process for the national NSF I-Corps teams program, which awards $50,000 for use in conducting additional customer discovery or developing a MVP. At the national level, teams receive more comprehensive training on the entire business model canvas components.

The technologies explored in the mini-program were very diverse, including a cashless tipping mobile app, a preterm imaging optical system, a tissue engineering bioreactor, an alcohol sensor system, a biosensor for agricultural pathogens, an edema quantification system, a device for sample collection, and yeast strains that can be used to lower the alcohol level content of wines.

For more information on the NSF I-Corps program, please contact Peter Hernandez, Director of the Office of Technology Management and Commercialization at (305) 348-30151 or via email at pphernan@fiu.edu.
Upcoming Events

May 2016

- May 10, 8 am to 5 pm, South Florida Child Psychology Research Conference, deadline for submissions is April 8, 2016, additional information
- May 13, 12:45 to 2:30 pm, AHC 4 #402, Eli Lilly Open Innovation Drug Discovery (OIDD) Program Webinar, kindly RSVP as seating is limited
- May 17, 1 to 3 pm, AHC 4 #402, IRB Part 2—Managing your Approved Protocol, please contact molinae@fiu.edu to register
- May 18, 8 am to 12 noon, MARC Pavilion, Southern HIV and Alcohol Research Consortium (SHARC) Conference, registration is required
- May 19 and 20, MARC Pavilion, 3rd Scientific Symposium of the Society for Personalized Nano-Medicine, registration is required

Awards Received—March 2016

FIU researchers were awarded $6,714,388 in March 2016. Below is a listing of awards received.

PI: Christopher Jon Baraloto
Biology
Award Action Type: Initial
AWARDING SPONSOR: U.S. Department of Agriculture
TITLE: Research Support Agreement with USDA-ARS SHRS
AWARD: $ 66,172

PI: Shekhar Bhansali
Elec and Computer Eng
Award Action Type: Continuation
AWARDING SPONSOR: PicoCal Inc
TITLE: Biosensors- Effect of design on efficacy of sensors
AWARD: $ 11,617

PI: Eric Bishop-Von Wettberg
Biology
Award Action Type: Initial
AWARDING SPONSOR: National Institute of Food & Agriculture
TITLE: Next-Generation Genebank Management of Mangifera indica
AWARD: $ 79,000

PI: Werner Boeglin
Physics
Award Action Type: Increase
AWARDING SPONSOR: U.S. Department of Energy
TITLE: Hadronic Physics with Electromagnetic Probes
AWARD: $ 458,000

PI: Kevin Mershon Boswell
Biology
Award Action Type: Initial
AWARDING SPONSOR: University of Miami
TITLE: Ecology of Forage Fishes in the Arctic Nearshore
AWARD: $ 28,768

PI: Eric Thomas Brewe
Teaching and Learning
Award Action Type: Pre-Award
AWARDING SPONSOR: National Science Foundation
TITLE: Graduate Research Fellowship Program
AWARD: $ 46,000

For updates, corrections, suggestions, and/or general comments, please email Mercedes.rodriguez@fiu.edu
PI: Fabian Gonzalo Cevallos  
CIVIL AND ENVIRON ENGINEERING  
Award Action Type: Initial  
AWARDING SPONSOR: Florida Department of Transportation  
TITLE: Safe and Accessible Pedestrian Facilities Inventory Model (SAPFIM)  
AWARD: $100,000  
PI: Erika K Coles  
PSYCHOLOGY  
Award Action Type: Initial  
AWARDING SPONSOR: Children's Trust  
TITLE: A summer program for children with or at risk for serious behavior problems  
AWARD: $481,005  
PI: Todd Crowl  
SOUTHEAST ENV RESEARCH CTR  
Award Action Type: Increase  
AWARDING SPONSOR: University of New Hampshire  
TITLE: Luquillo CZO: the role of hot spots and hot moments in tropical landscape  
AWARD: $55,949  
PI: Matthew DeGennaro  
BIOLOGY  
Award Action Type: Continuation  
AWARDING SPONSOR: National Institutes of Health  
TITLE: Identifying Mosquito Receptors that Detect Human Odor  
AWARD: $108,000  
PI: Hai Deng  
ELEC AND COMPUTER ENG  
Award Action Type: Initial  
AWARDING SPONSOR: Ohio State University  
TITLE: VLSI Chip Design for Liquid Crystal Lens Driver  
AWARD: $25,000  
PI: Nazira El-Hage  
COM IMMUNOLOGY  
Award Action Type: Continuation  
AWARDING SPONSOR: National Institutes of Health  
TITLE: Role of Autophagy in Microglia-induced NeuroAIDS in Substance Abuse  
AWARD: $358,875  
PI: Mark Alan Finlayson  
COMPUTER INFO SCIENCES  
Award Action Type: Continuation  
AWARDING SPONSOR: University of California Los Angeles  
TITLE: Narratives in the Informational Patient Society  
AWARD: $65,000  
PI: Brian Fonseca  
J GORDON INS PUB POL AND CITI  
Award Action Type: Initial  
AWARDING SPONSOR: Global Affairs Canada  
TITLE: Cybersecurity Panel at the 1st Annual Hemispheric Security Conference  
AWARD: $3,745  
PI: James Fourqurean  
BIOLOGY  
Award Action Type: Initial  
AWARDING SPONSOR: Environmental Protection Agency  
TITLE: Seagrass monitoring in the Florida Keys National marine Sanctuary  
AWARD: $200,000
PI: Stacy Lynn Frazier
PSYCHOLOGY
Award Action Type: Initial
AWARDING SPONSOR: University of Illinois Chicago
TITLE: Leaders@ Play for Chicago's Youth: Professional Development
AWARD: $11,761

PI: Kenneth G Furton
PROVOST AND EXEC VP ACAD AFF
Award Action Type: Increase
AWARDING SPONSOR: Association of Public & Land-Grant Univ
TITLE: University Transformation through Teaching (UT3) Phase II
AWARD: $50,000

PI: Raul Gonzalez Jr
PSYCHOLOGY
Award Action Type: Initial
AWARDING SPONSOR: National Institute on Drug Abuse
TITLE: Decision-Making and Episodic Memory in Trajectories to Cannabis Addiction
AWARD: $420,513

PI: Tomas R Guilarte
ROBERT STEMPPEL CPHSW DEANS OFF
Award Action Type: Initial
AWARDING SPONSOR: Environmental Health Sciences
TITLE: Molecular and Behavioral Effects of Low Level Manganese Exposure
AWARD: $6,417

PI: Mary Helen Hayden
SCHOOL OF SOCIAL WORK
Award Action Type: Increase
AWARDING SPONSOR: University of Central Florida
TITLE: FIU Child Welfare Education Program
AWARD: $6,000

PI: Zahra Sana Hazari
TEACHING AND LEARNING
Award Action Type: Initial
AWARDING SPONSOR: Harvard University
TITLE: Outcome Programs and Science Career Intentions (OPSCI)
AWARD: $10,001

PI: Michelle Hospital
SISH
Award Action Type: Initial
AWARDING SPONSOR: Ware Foundation
TITLE: Examining Equine Facilitated Psychotherapy (EFP) as a Complement
AWARD: $150,000

PI: Sundararaj Sitharama Iyengar
COMPUTER INFO SCIENCES
Award Action Type: Increase
AWARDING SPONSOR: Army Research Office
TITLE: A game theoretic approach to self-configuring, non-cooperative
AWARD: $12,000

PI: Pamela Ann Izvanariu
SIPA
Award Action Type: Initial
AWARDING SPONSOR: Service Employees International Union
TITLE: Healthcare and Living Wage in Miami-Dade and Broward Counties
AWARD: $20,215
PI: Ranu Jung  
**ENGINEERING DEANS OFFICE**  
Award Action Type: Initial  
AWARDING SPONSOR: Emory University  
**TITLE:** Naturalistic Investigation of Brain Neuroplasticity in Children Born Pre-Term  
**AWARD:** $12,500

PI: Sakhrat Khizroev  
**ELEC AND COMPUTER ENG**  
Award Action Type: Pre-Award  
AWARDING SPONSOR: University of California Berkeley  
**TITLE:** Physics of Spin Switching in Sub-10-nm Spin-transfer-torque agnetic  
**AWARD:** $45,629

PI: John Kominoski  
**BIOLOGY**  
Award Action Type: Initial  
AWARDING SPONSOR: National Science Foundation  
**TITLE:** DISSERTATION RESEARCH: Sea level rise, vegetation regime shifts  
**AWARD:** $16,380

PI: Grover L Larkins  
**ELEC AND COMPUTER ENG**  
Award Action Type: Continuation  
AWARDING SPONSOR: Air Force Office of Scientific Research  
**TITLE:** Potentially Useful and Novel Properties of Doped 2-Dimensional Materials  
**AWARD:** $150,000

PI: Kingsley Lau  
**CIVIL AND ENVIRON ENGINEERING**  
Award Action Type: Initial  
AWARDING SPONSOR: Florida Department of Transportation  
**TITLE:** Susceptibility of Bridge Steel and Concrete Components to  
**AWARD:** $200,000

PI: Mark A Marine  
**ARCHICT AND THE ARTS DEANS OFF**  
Award Action Type: Initial  
AWARDING SPONSOR: City of Miami Beach  
**TITLE:** Miami Beach Convention Center  
**AWARD:** $3,877

PI: Kalai Mathee-Narasimhan  
**COM HUMAN AND MOL GENETICS**  
Award Action Type: Initial  
AWARDING SPONSOR: Sanofi Pasteur SA  
**TITLE:** Global Health Consortium, Herbert Wertheim College of Medicine  
**AWARD:** $50,000

PI: Kalai Mathee-Narasimhan  
**COM HUMAN AND MOL GENETICS**  
Award Action Type: Initial  
AWARDING SPONSOR: Sanofi Pasteur SA  
**TITLE:** Global Health Consortium, Herbert Wertheim College of  
**AWARD:** $80,000

PI: Dwayne McDaniel  
**ARC APPLIED RESEARCH CENTER**  
Award Action Type: Increase  
AWARDING SPONSOR: Office of Naval Research  
**TITLE:** Development of a Novel Health Monitoring System for Adhesively  
**AWARD:** $174,832

For updates, corrections, suggestions, and/or general comments, please email Mercedes.rodriguez@fiu.edu
PI: Laura Crego Miller Mcpherson
**PHYSICAL THERAPY**
Award Action Type: Initial
AWARDING SPONSOR: Northwestern University
TITLE: Effect of Neural Constraints on Movement in Stroke  
AWARD: $ 27,366

PI: Maria Jose Miguez Perez
**SISH**
Award Action Type: Initial
AWARDING SPONSOR: Florida Department of Health
TITLE: Biobehavioral Intervention For Smokers Living With HIV  
AWARD: $ 1,411,322

PI: Madhavan P Nair
**COM IMMUNOLOGY**
Award Action Type: Initial
AWARDING SPONSOR: National Institutes of Health
TITLE: 3rd Annual Personalized NanoMedicine Symposium  
AWARD: $ 43,500

PI: Madhavan P Nair
**COM IMMUNOLOGY**
Award Action Type: Continuation
AWARDING SPONSOR: National Institutes of Health
TITLE: Multifunctional Nanocarrier to Eradicate HIV from latently  
AWARD: $ 358,875

PI: Steven Oberbauer
**BIOLOGY**
Award Action Type: Initial
AWARDING SPONSOR: National Science Foundation
TITLE: Collaborative Research: Understanding the effects of increased  
AWARD: $ 407,424

PI: Mesut Ozgen
**MUSIC**
Award Action Type: Initial
AWARDING SPONSOR: Miami-Dade County Cultural Affairs
TITLE: 2016 Miami International GuitART Festival  
AWARD: $ 5,000

PI: Yannis Peter Papastamatiou
**BIOLOGY**
Award Action Type: Initial
AWARDING SPONSOR: National Geographic Society
TITLE: Coexistance at an ocean oasis: what supports the abundance  
AWARD: $ 20,000

PI: Niki J Pissinou
**COMPUTER INFO SCIENCES**
Award Action Type: Initial
AWARDING SPONSOR: National Science Foundation
TITLE: REU SITE: ASSET: Research Experiences for Undergraduates in  
AWARD: $ 84,000

PI: Niki J Pissinou
**COMPUTER INFO SCIENCES**
Award Action Type: Initial
AWARDING SPONSOR: National Science Foundation
TITLE: REU SITE: ASSET: Research Experiences for Undergraduates in  
AWARD: $ 276,000
PI: Jennifer Rehage  
**EARTH AND ENVIRONMENT**  
Award Action Type: Initial  
AWARDING SPONSOR: South Florida Water Management District  
TITLE: Role of Florida Bay coastal embayments as fish habitat: nursery  
AWARD: $ 85,000

PI: Jennifer Rehage  
**EARTH AND ENVIRONMENT**  
Award Action Type: Increase  
AWARDING SPONSOR: U.S. Army Corps of Engineers  
TITLE: Role of Marsh-Mangrove Interface Habitats as Aquatic Refuges  
AWARD: $ 81,000

PI: Leonard Scinto  
**EARTH AND ENVIRONMENT**  
Award Action Type: Initial  
AWARDING SPONSOR: South Florida Water Management District  
TITLE: Settling and entrainment properties of STA particulates  
AWARD: $ 122,423

PI: Leonard Scinto  
**EARTH AND ENVIRONMENT**  
Award Action Type: Initial  
AWARDING SPONSOR: South Florida Water Management District  
TITLE: Subproject: Settling and entrainment properties of STA particulates  
AWARD: $ 112,577

PI: Shimelis Setegn  
**ENVIR AND OCCUPATIONAL HEALTH**  
Award Action Type: Initial  
AWARDING SPONSOR: Dream in Green Inc  
TITLE: Green Schools Challenge: Evidence-based Practice  
AWARD: $ 6,500

PI: Casey Steadman  
**THE WOLFSONIAN**  
Award Action Type: Increase  
AWARDING SPONSOR: FIU Foundation  
TITLE: Knight Museum of Ideas Fund  
AWARD: $ 85,000

PI: Oren B Stier  
**RELIGIOUS STUDIES**  
Award Action Type: Increase  
AWARDING SPONSOR: Robert Russell Memorial Foundation  
TITLE: Developing an Online Holocaust Studies Certificate  
AWARD: $ 3,000

PI: Markus L Thiel  
**POLITICS AND INTL RELATIONS**  
Award Action Type: Decrease  
AWARDING SPONSOR: European Commission  
TITLE: Outreach Projects with the Scientific and Business Miami Communities  
AWARD: $ 11,144

PI: Sabri Tosunoglu  
**MECHANICAL AND MAT ENGINEERING**  
Award Action Type: Initial  
AWARDING SPONSOR: University of Central Florida  
TITLE: FIU NASA Student Launch Competition  
AWARD: $ 2,000
PI: Diana Valle-Riestra  
COMMUNITY ENGAGEMENT  
Award Action Type: Initial  
AWARDING SPONSOR: Able Trust  
TITLE: Project Panther LIFE: Preparing for Employment  
AWARD: $ 65,000

Funding Opportunities
The funding opportunities are in a separate excel file, which includes a filter for agency, date and opportunity number.

Contact ORED Senior Leadership

<table>
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