

## 2013 Research Opportunity Seed Fund Awards

PI	PI Dept, College	Co-PI(s)	Co-PI Dept, College	Title	Approved Budget
Ahn, Andrew Hi	Neurology (COM)	(1) Mingzhou Ding; (2) Roger Fillingim; (3) Michael Robinson; (4) John Kairalla	(1) Biomedical Engineering, ENG; (2) Community Dentistry, Dentistry; (3) Psychology, PHHP; (4) Biostatistics, PHHP	Multimodal brain imaging of pain: novel opportunities for targeted therapy	\$83,000.00
Allen, Kyle	BME (ENG)	(1) Jon Dobson; (2) David P. Arnold	(1) Biomedical Engineering, ENG; (2) Electrical & Computer Engineering, ENG	Magnetic Nanoparticle/Biomarker Harvesting Technologies for the Early Diagnosis and Treatment of Osteoarthritis	\$87,792.00
Bolser, Donald	Physiological Sciences (Vet Med)	(1) Warren Dixon; (2) Teresa Pitts; (3) Sean McCoy	(1) Mechanical & Aerospace Engineering, ENG; (2) Physiological Sciences, Vet Med; (3) Animal Sciences, Vet Med	An External Device for Rehabilitation of Airway Protective Behaviors	\$85,770.00
Brady, Jeannine	Oral Biology (DENT)	(1) Susan Percival; (2) Thomas Angelini	(1) Food Science & Human Nutrition, IFAS; (2) Mechanical & Aerospace Engineering, ENG	Inhibition of <i>Streptococcus mutans</i> biofilm formation and amyloid fibrillization by cranberry	\$85,336.00
Driver, John	Animal Sciences (IFAS)	(1) Brian Wilson; (2) William Castleman; (3) John Lednicky	(1) Pathology, COM; (2) Infectious Diseases & Pathology, VM; (3) Environmental & Global Health, PHHP	Natural Killer T (NKT) Cell Control of Pandemic Swine Influenza Infection: A Novel Pig Model	\$85,000.00
Flanagan, James B	BMB (COM)	(1) Robert McKenna; (2) Steve Bruner	(1) Biochemistry & Molecular Biology, COM; (2) Chemistry, CLAS	Antiviral Drug Inhibition of a Unique Step in Picornavirus RNA Replication	\$85,000.00
Jiang, Peng	Chemical Engineering (ENG)	Jonathan Shi	Building Construction, DCP	Novel Dynamic Windows for Energy Efficient Buildings	\$85,000.00
Kawahara, Akito	FLMNH	(1) Jiri Hulcr; (2) Valérie de Crécy-Lagard; (3) William B. Barbazuk	(1) School of Forest Resources & Conservation/Entomology, IFAS; (2) Microbiology & Cell Science, IFAS; (3) Biology, CLAS	Comparative Genomics of a Leaf-Mining Moth: Detecting Bacterial Symbionts That Delay Plant Aging	\$88,564.00

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Maupin-Furlow, Julie	Microbiology & Cell Science (IFAS)	(1) Alfred Lewin; (2) Hideko Kasahara	(1) Molecular Genetics & Microbiology, COM; (2) Physiology, COM	Gene therapy targeting cardiac myosin light chain kinase for the treatment of heart failure	\$85,000.00
Pascual, David	Infectious Diseases & Pathology (Vet Med)	(1) Todd Brusko; (2) Shannon Walle (consultant)	(1) Pathology, COM; (2) Oral Biology, Dentistry	Mucosal Therapeutics for Type I Diabetes	\$85,000.00
Petersen, Bryon E	Pediatrics (COM)	(1) Chris Batich; (2) Jon Dobson; (3) Peter McFetridge; (4) David Nelson; (5) Edward Scott; (6) Naohiro Terada	(1) Materials Science & Engineering, ENG; (2 & 3) Biomedical Engineering, ENG; (4) Medicine, COM; (5) Molecular Genetics & Microbiology, COM; (6) Pathology, COM	Developing a Functional Bio-artificial Liver Device Utilizing a De-Cellularized Matrix as a Platform	\$85,000.00
Schmink, Marianne	Center for Latin American Studies	(1) Simone Athayde; (2) Stephanie Bohlman; (3) Anthony Oliver-Smith; (4) Michael Binford	(1) Center for Latin American Studies; (2) School of Forest Resources & Conservation, IFAS; (3) Anthropology, CLAS; (4) Geography, CLAS	Designing a Framework for Integrative Research on Dams, Environment and Society in the Amazon	\$83,000.00
Sumerlin, Brent	Chemistry (CLAS)	(1) Jon Stewart; (2) Jose Aguirre; (3) L. Shannon Holliday	(1) Chemistry, CLAS; (2) Physiology, Vet Med; (3) Orthodontics, Dentistry	Role of Polymer Architecture on the Activity of Osteoprotegerin Conjugates for the Treatment of Accelerated Bone Loss Disorders	\$85,000.00
Sunny, Nishanth	Medicine (COM)	(1) Kenneth Cusi; (2) Christiaan Leeuwenburgh; (3) Arthur Edison; (4) Timothy Garrett	(1) Medicine, COM; (2) Aging, COM; (3) Biochemistry & Molecular Biology, COM; (4) Pathology, COM	Mitochondrial Dysfunction in Nonalcoholic Fatty Liver Disease (NAFLD): Mechanisms and Role of Insulin Resistance and Oxidative Stress	\$85,836.00
Xia, Guangbin	Neurology (COM)	(1) Tetsuo Ashizawa; (2) Maurice Swanson; (3) Shouguang Jin	(1) Neurology, COM; (2 & 3) Molecular Genetics & Microbiology, COM	Genome Correction of Induced Pluripotent Stem Cells from Myotonic Dystrophy Type 1	\$85,000.00
Zhang, Shouan	Plant Pathology, Tropical REC-Homestead (IFAS)	(1) Yuncong Li; (2) Gul Shad Ali	(1) Soil & Plant Nutrition, Tropical REC-Homestead (IFAS); (2) Molecular Biology, Tropical REC-Homestead (IFAS)	Exploration of Soil Phosphorus Solubilization by Bacilli Plant Growth-Promoting Bacteria (PGPR)	\$87,946.00