FACULTY ON-CAMPUS GRANT RECIPIENTS

2015-2016

Congratulations to all Award Winners

Principal Investigator (PI): Dr. Troy Baird  
Co-Principal Investigators (Co-PI): Dr. Michelle Haynie  
Title: Tests of Darwinian Fitness Using Collared Lizards as a Model System  
Regular Grant  
College of Mathematics and Science

Principal Investigator (PI): Dr. David Bass  
Title: Macroinvertebrate Community Structure in a Northwestern Oklahoma Spring  
Regular Grant  
College of Mathematics and Science

Principal Investigator (PI): Dr. Susan Benson  
Co-Principal Investigators (Co-PIs): Dr. Linda R. Sealey-Holtz, Dr. Bucky Dodd  
Title: Grammar Knowledge and Response to Formative Feedback in the SLP Curriculum  
Distance Learning Grant  
College of Education and Professional Studies

Principal Investigator (PI): Dr. Glee Bertram  
Co-Principal Investigators (Co-Pls): Ms. Tina Kambour, Dr. Melissa Powers, Dr. Brandon Burr, Dr. LaDonna Atkins, Dr. Kaye Sears, Dr. Tawni Homes  
Title: Generations Learning Together: Pilot Study for Creating an Intergenerational Center  
Interdisciplinary Grant  
College of Education and Professional Studies

Principal Investigator (PI): Dr. Kanika Bhargava  
Co-Principal Investigators (Co-PI): Dr. Hari Kotturi  
Title: Antibiofilm Effect of Cinnamon Oil Nanoemulsions on MRSA and VRSA  
Interdisciplinary Grant  
College of Education and Professional Studies

Principal Investigator (PI): Dr. Robert Brennan  
Title: Identification of S. aureus biofilm-secreted macromolecules associated with keratinocyte inflammation  
Regular Grant  
College of Mathematics and Science
**Principal Investigator (PI):** Dr. Chris Butler  
**Title:** Modeling the Effects of Climate Change on the Distribution of Kinosternon Turtles  
**Regular Grant**  
*College of Mathematics and Science*

**Principal Investigator (PI):** Dr. SeonMi Choi  
**Title:** Augmented Reality (AR) technology as a new teaching and learning tool in the interior design education  
**Mini Grant**  
*College of Fine Arts and Design*

**Principal Investigator (PI):** Dr. Lilian Chooback  
**Title:** Inhibiting Escherichia coli Dhydrodipicolinate Synthase: a Path to Drug Design  
**Regular Grant**  
*College of Mathematics and Science*

**Principal Investigator (PI):** Dr. Ed Cunliff  
**Co-Principal Investigators (Co-PIs):** Dr. Mike Nelson, Dr. Melissa Powers  
**Title:** Rethinking the Purpose and Practice of Research at Masters Level Institutions: A Case Study  
**Interdisciplinary Grant**  
*College of Education and Professional Studies*

**Principal Investigator (PI):** Dr. Allyson Fenwick  
**Title:** Next generation sequencing to evaluate population genetic structure of Mediterranean house geckos, Hemidactylus turcicus, at the University of Central Oklahoma  
**Regular Grant**  
*College of Mathematics and Science*

**Principal Investigator (PI):** Dr. Michelle Haynie  
**Title:** Pilot Study: Genetic Changes in a Small Rodent Community in Response to Short-term Environmental Pressures: A Population Genomics Perspective  
**Regular Grant**  
*College of Mathematics and Science*

**Principal Investigator (PI):** Dr. Britney Hopkins  
**Co-Principal Investigators (Co-PI):** Dr. Kristin Karber  
**Title:** The CCA Urban ACT Prep Program  
**Community Matching Grant**  
*College of Mathematics and Science*

**Principal Investigator (PI):** Dr. Mohammad Robiul Hossan  
**Co-Principal Investigators (Co-PI):** Dr. Melville Vaughan  
**Title:** Microfluidic Cell Separation for Bone Tissue Engineering and Regeneration  
**Interdisciplinary Grant**  
*College of Mathematics and Science*

**Principal Investigator (PI):** Dr. Yuhao Jiang  
**Title:** Image analysis of hepatic steatosis to photonically assess transplantable liver  
**Regular Grant**  
*College of Mathematics and Science*

**Principal Investigator (PI):** Dr. Chintamani Jog  
**Co-Principal Investigators (Co-PIs):** Dr. Kanika Bhargava, Dr. Dana Tilford  
**Title:** Theory Meets Practice: Enhancing Business Statistics Learning with data from Cafeteria  
**SoTL Grant**  
*College of Business*
**Principal Investigator (PI):** Ms. Amy Johnson  
**Co-Principal Investigators (Co-PI):** Mr. Sam Ladwig  
**Title:** The Economics of Perception  
Regular Grant  
College of Fine Arts and Design

**Principal Investigator (PI):** Dr. Steven Karpowicz  
**Co-Principal Investigators (Co-PIs):** Dr. Gang Xu, Dr. Melville Vaughan  
**Title:** Investigating the interplay of genetic and mechanobiological responses of cilia to viscosity  
Interdisciplinary Grant  
College of Mathematics and Science

**Principal Investigator (PI):** Dr. Morshed Khandaker  
**Co-Principal Investigators (Co-PI):** Dr. Mel Vaughan  
**Title:** Design and Evaluation of Novel Scaffold for Tissue Engineering Research using electrospin fiber  
Interdisciplinary Grant  
College of Mathematics and Science

**Principal Investigator (PI):** Dr. Lalit Manral  
**Title:** The customer-centric logic of strategic behavior of Web Conglomerates  
Regular Grant  
College of Business

**Principal Investigator (PI):** Dr. Tracy Morris  
**Co-Principal Investigators (Co-PI):** Dr. Cynthia Murray  
**Title:** Student SCHOLARs: An Undergraduate Research Model Involving Service Learning  
Regular Grant  
College of Mathematics and Science

**Principal Investigator (PI):** Dr. Karl Nelson  
**Title:** Music of the Past for Musicians of the Future  
Regular Grant  
College of Fine Arts and Design

**Principal Investigator (PI):** Dr. Justin Quinn Olmstead  
**Co-Principal Investigators (Co-PI):** Dr. Randy Ice  
**Title:** Insuring Victory: Lloyd’s of London and the British Government During the First World War  
Interdisciplinary Grant  
Liberal Arts

**Principal Investigator (PI):** Dr. Teresa Pac  
**Title:** Art and Urban Space of Late Medieval Bohemia and Poland  
Regular Grant  
College of Fine Arts and Design

**Principal Investigator (PI):** Dr. Lori Risley  
**Co-Principal Investigators (Co-PI):** Dr. Adam Johnson  
**Title:** Transforming Lives, Achieving Dreams: Using Learning Counts Portfolios to Earn College Credit at the University of Central Oklahoma  
Interdisciplinary Grant  
College of Education and Professional Studies

**Principal Investigator (PI):** Dr. Nikki Seagraves  
**Title:** Developing an Avian Model of Maternal Phenylketonuria  
Regular Grant  
College of Mathematics and Science
Principal Investigator (PI): Dr. Linda Sealey-Holtz  
Co-Principal Investigators (Co-PI): Dr. Jacilyn Olson  
Title: *Comparison of Combined and Sequential Physical and Vocal Training for Parkinson's Disease*  
Interdisciplinary Grant  
College of Education and Professional Studies

Principal Investigator (PI): Dr. Jessica Sheetz-Nguyen  
Title: *Applied Research: Irish Catholics in Victorian London*  
Regular Grant  
Liberal Arts

Principal Investigator (PI): Dr. Rashi Shukla  
Co-Principal Investigators (Co-PI): Dr. Elizabeth Maier  
Title: *An Examination of Methamphetamine & Drug Endangered Children*  
Regular Grant  
Liberal Arts

Principal Investigator (PI): Dr. Jeanetta Sims  
Co-Principal Investigators (Co-PI): Dr. Ed Cunliff  
Title: *Leadership as Accelerating Identity: Exploring a Leader Development Model that Endures across Borders and Cultures*  
Interdisciplinary Grant  
College of Business

Principal Investigator (PI): Dr. Paul Stone  
Co-Principal Investigators (Co-PIs): Mr. Ken Locey, Dr. Sean Laverty  
Title: *When a Hotspot gets Hotter: Climate-related Drivers of a Desert Biodiversity*  
Interdisciplinary Grant  
College of Mathematics and Science

Principal Investigator (PI): Dr. Mickie Vanhoy  
Title: *Time Series Analyses for Perceptual Data*  
Regular Grant  
College of Education and Professional Studies

Principal Investigator (PI): Dr. Melville Vaughan  
Co-Principal Investigators (Co-PI): Dr. Gang Xu  
Title: *Measuring tension within a skin equivalent: effect of tension on cell phenotypes*  
Interdisciplinary Grant  
College of Mathematics and Science

Principal Investigator (PI): Dr. Tyler Weldon  
Title: *Assessment Micro-Climates that Enhance Learning Cultures*  
SoTL Grant  
College of Education and Professional Studies

Principal Investigator (PI): Dr. Lori Wooden  
Co-Principal Investigators (Co-PIs): Dr. Dawn Marie Lindblade, Ms. KaDee Bramlett  
Title: *CD Recording of Select Solo Bassoon and Chamber Music composed by Bill Douglas between 2005 and 2014*  
Regular Grant  
College of Fine Arts and Design
Principal Investigator (PI): Dr. Gang Xu
Co-Principal Investigators (Co-PI): Dr. Yuhao Jiang
Title: Design and Construction of a Biomimic Axoneme Model
Regular Grant
College of Mathematics and Science