## RPS Category I

### Arts and Sciences, College of

#### Anthropology

Buxhoeveden, Daniel  
*Apical Dendrites in Rat Brains Exposed to Cocaine.* - 13590-KA02  
**Sponsor:** USC Research Foundation  
**Co-PI:** Mactutus, Charles  
$18,000$

#### Chemistry & Biochemistry

Wiskur, Sheryl  
*Guanidiniums as Chiral Catalysts* - 13020-KA21  
**Sponsor:** USC Research Foundation  
**Co-PI:** Shimizu, Ken  
$18,000$

#### English

Miller, David  
*Spenser at South Carolina (intramural)* - 12530-KA08  
**Sponsor:** USC Research Foundation  
$18,000$

#### Geography

Kupfer, John  
*Forest Regeneration Patterns Following Logging of Bottomland Hardwood Forests in Congaree National Park* - 13540-KA10  
**Sponsor:** USC Research Foundation  
**Co-PI:** Grego, John  
$18,000$
History
Doyle, Don
Secession: An International Phenomenon - 13550-KA05 18,000
Sponsor: USC Research Foundation
Co-PI: Smith, Gordon

Philosophy
Bezuidenhout, Anne
Parentheticals: Syntactic, Pragmatic and Processing Perspectives - 12560-KA02 18,000
Sponsor: USC Research Foundation
Co-PI: Morris, Robin

Psychology
Baylis, Leslie
Structural Correlates of Memory Decline in Normal Aging - 13580-KA20 18,000
Sponsor: USC Research Foundation
Co-PI: Baylis, Gordon, Bonilha, Leonardo, Hirth, Victor

Harrod, Steven
Prenatal Nicotine: Long-Term Vulnerability to Stimulant Drugs - 13580-KA21 18,000
Sponsor: USC Research Foundation
Co-PI: Mactutus, Charles

Sociology
Vesselinov, Elena
Gated Communities and Social Change: A Study of the Impact of Gating and Latino Immigration on American Cities - 13530-KA01 9,795
Sponsor: USC Research Foundation
Co-PI: Sanders, Jimmy
Engineering & Information Technology, College of

**Chemical Engineering**

Delhommelle, Jerome

*Understanding and Predicting Polymorphism in Molecular Crystals* - 15510-KA20 18,000

**Sponsor:** USC Research Foundation  
**Co-PI:** zur Loye, Hans-Conrad

**Civil & Environmental Engineering**

Ziehl, Paul

*RPS: "Sensor Fusion Approach to Structural Health Assessment"* - 15520-KA10 18,000

**Sponsor:** USC Research Foundation  
**Co-PI:** Chaudhry, M.

**Electrical Engineering**

Koley, Goutam

*Nano-electromechanical Resonators for Target Molecule Detection* - 15530-KA03 18,000

**Sponsor:** USC Research Foundation  
**Co-PI:** Khan, M. Asif

**Mechanical Engineering**

Voglewede, Philip

*Bionic Prosthetic Devices for Trans-Tibial Amputees: Mimicking Normal Human Gait* - 15540-KA09 18,000

**Sponsor:** USC Research Foundation  
**Co-PI:** Rocheleau, David

**Medicine, School of**

**Cell & Developmental Biology & Anatomy**

Murray, David

*Peroxisome Proliferator-Activated Receptor Inhibition of Type II Diabetic Cardiomyopathy* - 18020-KA09 18,000

**Sponsor:** USC Research Foundation  
**Co-PI:** Baynes, John
Internal Medicine

Hirth, Victor

*Functional and Structural Neuroimaging used to Identify Risk Factors for Driving in Seniors.* - 18190-KA05

**Sponsor:** USC Research Foundation  
**Co-PI:** Bonilha, Leonardo  
**Co-PI:** Rorden, Christopher  
**Co-PI:** Baylis, Gordon

Pathology & Microbiology

McKallip, Robert

*Characterization of CD44 Isoforms Involved in LAK-mediated Tumor Killing* - 18060-KA06

**Sponsor:** USC Research Foundation  
**Co-PI:** Nagarkatti, Mitzi

Pharmacology, Physiology & Neuroscience

Sweitzer, Sarah

*Opioid tolerance in infants and children* - 18080-KA13

**Sponsor:** USC Research Foundation  
**Co-PI:** Walsh, Kenneth

Public Health, Arnold School of

Communication Sciences & Disorders

Bonilha, Leonardo

*Regional Gray and White Matter Abnormalities in Huntington Disease* - 11560-KA05

**Sponsor:** USC Research Foundation  
**Co-PI:** Frank, Elaine  
**Co-PI:** Baylis, Gordon  
**Co-PI:** Morgan, Paul  
**Co-PI:** Abramson, R.K.

de Bode, Stella

*Reducing Cortical Atrophy and Improving Functional Outcomes in Post-Hemispherectomy Children* - 11560-KA06

**Sponsor:** USC Research Foundation  
**Co-PI:** Fritz, Stacy  
**Co-PI:** de Bode, Stella  
**Co-PI:** Bonilha, Leonardo  
**Co-PI:** Dubinsky, Stanley
RPS Category II

Arts and Sciences, College of

Art
Heid, Karen
  Teaching Art in the Multiage Classroom - 12510-KA14 7,000
  Sponsor: USC Research Foundation
  Co-PI:

Languages, Literatures, and Cultures, Department of

Mueller, Agnes
  Transnational Representations of Jews in Contemporary German Literature - 12610-KA08 5,270
  Sponsor: USC Research Foundation
  Co-PI:

Mathematics
Ju, Lili
  Some Applications of Centroidal Voronoi Tessellations - 13060-KA00 5,000
  Sponsor: USC Research Foundation
  Co-PI:

Vraciu, Adela
  The Frobenius Homomorphism - 13060-KA01 3,000
  Sponsor: USC Research Foundation
  Co-PI:

Statistics
Hitchcock, David
  Bandwidth-based Functional Data Analysis: Detecting Outlying Curves and Influential Points - 13080-KA04 6,917
  Sponsor: USC Research Foundation
  Co-PI:
Education, College of Instruction & Teacher Education

Lotter, Christine

Water Quality Investigations: Improving Secondary Science Education through a USC-Professional Development Schools Partnership - 15250-KA04

Sponsor: USC Research Foundation
Co-PI: Vogler, Kenneth

Comparing Student Attitudes Toward High-Stakes Testing - 15250-KA05

Sponsor: USC Research Foundation
Co-PI: Mass Communications & Information Studies, College of

Wei, Ran

Avian Flu, Risk Perceptions and Information-seeking Behavior - 15600-KA03

Sponsor: USC Research Foundation
Co-PI: Music, School of

Davis, Ronald

The Tuba Artists of the Hollywood Studios - 12550-KA10

Sponsor: USC Research Foundation
Co-PI: Lane, Jeremy

Founding of the USC New Horizons Music Project - 12550-KA08

Sponsor: USC Research Foundation
Co-PI:
RPS Category III

Arts and Sciences, College of

Art

Kissel, Laura
"Disability Is Us: Recovering and Documenting the History of Disability" (RPS) - 12510-KA15
Sponsor: USC Research Foundation
Co-PI:

Lyon, Robert
New Directions In Contemporary Art Making
Using the Wood Lathe to Make Large-Scale Sculpture - 12510-KA16
Sponsor: USC Research Foundation
Co-PI:

Robinson, Mary
Exchange Exhibition - 12510-KA17
Sponsor: USC Research Foundation
Co-PI:

Music, School of

Music, School of

Hoyt, Peter
Haydn and the Visual Imagination - 12550-KA11
Sponsor: USC Research Foundation
Co-PI:

Tintes, Helen
Spanish Music CD - 12550-KA09
Sponsor: USC Research Foundation
Co-PI:

Report Total: $403,666