Arts and Sciences, College of

Baruch Institute
Zingmark, Richard
Functional Relationships (Coupling) between Epiphytic Microalgae and Foodwebs in a Salt Marsh - (21600-FA81)

Sponsor: SC Sea Grant Consortium/NOAA
Co-PI:

Biological Sciences
Dewey, Michael
Peromyscus Models for Biomedical Research - (13010-FA70)

Sponsor: National Center for Research Resources (NCRR)/NIH
Co-PI:

A Genetic Stock Center for Peromyscus - (13010-FA88)

Sponsor: National Science Foundation (NSF)
Co-PI:

Ely, Berten
REU Site: Undergraduate Research in Integrative Evolutionary Biology - (13010-FA89)

Sponsor: National Science Foundation (NSF)
Co-PI: Hughes, Austin

Helmuth, Brian
Climate Change and Intertidal Biogeography: Coupling Remote Sensing Data to Thermal Physiology - (13010-FA66)

Sponsor: National Aeronautics & Space Administration (NASA)
Co-PI:

Mousseau, Timothy
Collaborative Research: Reproductive Behavior and Immune Disease - (13010-FA48)

Sponsor: National Science Foundation (NSF)
Co-PI:

Quattro, Joseph
Population Genetic and Genomic Approaches to Assessing Coastal Environmental Health - (13010-FA64)

Sponsor: Medical University of South Carolina/NOS/NOAA
Co-PI:
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Award Amount</th>
<th>Sponsor</th>
<th>Co-PI</th>
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<tbody>
<tr>
<td>Stratmann, Johannes</td>
<td>Regulation of the SR160/tBRI1 Kinase Domain by Systemin, Brassinolide and Ultraviolet-B Radiation</td>
<td>109,761</td>
<td>National Science Foundation (NSF)</td>
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<td>Vogt, Richard</td>
<td>Expression of Olfactory SNMPs in Drosophila Melanogaster and Manduca Sexta</td>
<td>86,866</td>
<td>National Science Foundation (NSF)</td>
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<td>Waldman, Alan</td>
<td>Effects of Gravity on DNA Transactions in Mammalian Cells</td>
<td>165,357</td>
<td>National Aeronautics &amp; Space Administration (NASA)</td>
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<td>Adams, Richard</td>
<td>Sulfides and Disulfides of Di- and Polynmetallic Carbonyl Complexes: Precursors to Nano-Catalysts and Nano-Structured Materials</td>
<td>132,000</td>
<td>National Science Foundation (NSF)</td>
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<td>Chen, Donna</td>
<td>In Situ Studies of the Decomposition of Simulated Chemical Warfare Agents on Nanoparticle Catalysis</td>
<td>50,000</td>
<td>Army Research Office/DOD</td>
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<td>Morgan, Stephen</td>
<td>Student Program for Forensic DNA Analysis Employment</td>
<td>36,000</td>
<td>SC Law Enforcement Division</td>
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Sponsored Awards Management (SAM)
April, 2005  New Awards

Reger, Daniel
*Development of Unique Multitopic Ligands for the Syntheses of Highly Organized Multi-Metallic Complexes* - (13020-FA70)

**Sponsor:** National Science Foundation (NSF)
**Co-PI:**

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**Criminology & Criminal Justice, Department of**
Miller, J. Mitchell
*Gang Database Enhancement and Training* - (12200-FL00)

**Sponsor:** SC Department of Public Safety/DOJ
**Co-PI:**

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**Geography**
Mock, Cary
*Tropical Cyclone Reconstructions for The South Atlantic Bight Back into the Late Eighteenth Century* - (13540-FA30)

**Sponsor:** North Carolina State University/NOAA
**Co-PI:**

---

**Geological Sciences**
Kellogg, James
*Editorship of Elsevier Science Ltd: Journal of South American Earth Sciences* - (13040-J400)

**Sponsor:** Elsevier Science, Ltd.
**Co-PI:**

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Lakshmi, Venkataraman
*Climate Change and Intertidal Biogeography: Coupling Remote Sensing Data to Thermal Physiology* - (13040-FA69)

**Sponsor:** National Aeronautics & Space Administration (NASA)
**Co-PI:**

---

**Mathematics**
DeVore, Ronald
*Highly Effective Geospatial Representation and Analysis* - (13060-FA21)

**Sponsor:** Defense Advanced Research Projects Agency (DARPA)/DSO/DOD
**Co-PI:** Petrushev, Pencho  Sharpley, Robert

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Girardi, Maria
*Vector-Valued Analysis and Geometry of Banach Spaces* - (13060-FA09)

**Sponsor:** National Science Foundation (NSF)
**Co-PI:**
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<tr>
<th>Project Description</th>
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<td>Commutative Algebra Conference Honoring the Contributions of Phillip Griffith</td>
<td>National Security Agency (NSA)</td>
<td>14,712</td>
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<td>(13060-FA22)</td>
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<td>Woodward Folklife Video Project</td>
<td>National Endowment for the Arts (NEA)</td>
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<td>(34000-FA08)</td>
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<td>Continued Maintenance and Enhancement of IVIS</td>
<td>SC Department of Public Safety/DOJ</td>
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<td>(13070-FA54)</td>
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<td>Support for Firefighter Mobilization System</td>
<td>SC Department of Labor, Licensing and Regulation</td>
<td>3,600</td>
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<td>(13070-GA13)</td>
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<td>Transport Behavior of Superconductors at High Dissipative Currents</td>
<td>US Department of Energy (DOE)</td>
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<td>(13070-F129)</td>
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<td>Theoretical Studies of hadronic and Nuclear Dynamics</td>
<td>National Science Foundation (NSF)</td>
<td>139,000</td>
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<td>(13070-FA55)</td>
<td>Kubodera, Kuniharu</td>
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<td>Study of the Nucleon Using Polarized Photon Beams and Polarized Targets</td>
<td>National Science Foundation (NSF)</td>
<td>52,500</td>
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<td>(13070-FA31)</td>
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Tedeschi, David  
*SURA Fellowship for Nathan Baltzell - (13070-KA03)*  
**Sponsor:** Southeastern Universities Research Association  
**Co-PI:**

**Psychology**

Mactutus, Charles  
*Maternal HIV: Developmental Neurotoxicity - (13580-FA22)*  
**Sponsor:** National Institute of Child Health & Human Development (NICHD)/NIH  
**Co-PI:**

**Public Service & Policy Research, Institute for**

Beacham, Jeffery  
*Conestee Foundation Contract - (21100-KL07)*  
**Sponsor:** Conestee Foundation  
**Co-PI:**

**Statistics**

Grego, John  
*Safety Belt Survey - (13080-JL01)*  
**Sponsor:** Preusser Research Group, Inc.  
**Co-PI:**

**Business, Moore School of**

**Small Business Development Center**

Lenti, John  
*Defense Economic Transition Assistance - Control Center - (21250-FL23)*  
**Sponsor:** Small Business Administration (SBA)  
**Co-PI:**
Education, College of

**Instruction & Teacher Education**

**Freeman, Nancy**

Coursework and Training for School Age Staff, Agency/Organization Staff, Regulatory Staff and Early Childhood Faculty and Mentors - (15250-FJ10)  
*Sponsor:* SC Department of Social Services/HHS  
*Co-PI:*

**Stephens, Diane**

SCRI 2004-2005 - (15250-GJ12)  
*Sponsor:* SC Department of Education  
*Co-PI:*

**Styslinger, Mary**

SCRI Middle Grades June 2005 - (15250-GJ13)  
*Sponsor:* SC Department of Education  
*Co-PI:*

**Office of Program Evaluation**

**Seaman, Michael**

Coordination of the Centers for Ocean Sciences Education Excellence (COSEE) Network Evaluation - (15290-FA03)  
*Sponsor:* CORE/NSF  
*Co-PI:*

**Yap, Ching Ching**

Arts Assessment Institute - (15290-GJ01)  
*Sponsor:* Winthrop University  
*Co-PI:*

Standards-Based Arts Assessment in South Carolina: Music and Visual Arts Assessments for Distinguished Arts Programs (2004-2005) - (15290-GL10)  
*Sponsor:* SC Department of Education  
*Co-PI:*

Arts in Education Research Project I - (15290-GL12)  
*Sponsor:* Arts in Basic Curriculum Project/Winthrop University  
*Co-PI:
Sponsored Awards Management (SAM)
April, 2005  New Awards

**Physical Education**
Mensch, James
Richland School District 2 - (15210-HP02)

- **Sponsor:** Richland County School District 2
- **Co-PI:**

14,000

**Engineering & Information Technology, College of**

**Chemical Engineering**
Amiridis, Michael
Fellowship: Nanostructured Bimetallic Supported Catalysts - (15510-FA64)

- **Sponsor:** UT-Battelle, LLC/ Oak Ridge National Laboratory/DOE
- **Co-PI:**

3,500

Popov, Branko
Novel Non-Precious Metal Catalyst for PEMFC: Catalyst Selection Through Molecular Modeling and Durability Studies - (15510-FA44)

- **Sponsor:** US Department of Energy (DOE) - General
- **Co-PI:**

200,000

Development of New Process for Plating thin Films of Zn-Ni-P-X (X-Pb,Bi,Ce,Mo or Cd (1-5%) Quarternary Alloys on to Steel to Prevent Corrosion and Hydrogen Embrittlement. - (15510-KA14)

- **Sponsor:** American Electroplaters and Surface Finishers Society
- **Co-PI:**

25,000

Weidner, John
Effect of Structure of Room Temperature Ionic Liquids on Organic Reactions Involving Electrochemically Generated Superoxide Ions - (15510-FA63)

- **Sponsor:** National Science Foundation (NSF)
- **Co-PI:** Matthews, Michael

281,882

**Civil & Environmental Engineering**
Rizos, Dimitris
Investigation of Strength of Steel Used in the Construction of Heavy-Duty Steel Trailer - (15520-JA12)

- **Sponsor:** Sandlapper Contractors of Myrtle Beach, Inc.
- **Co-PI:** Ziehl, Paul

3,000
Sponsored Awards Management (SAM)

April, 2005   New Awards

**Computer Science & Engineering**

*Wang, Song*

*Shape Exploration for Medical Applications---From Representation, Correspondence, Deformation to Image Segmentation* - (15590-FA15)  
Sponsor: National Science Foundation (NSF)  
Co-PI: Kubota, Toshiro  
12,000

**Electrical Engineering**

*Ali, Mohammod*

*Career: Flexible, Ultra-Thin, Packaged Antennas and Arrays for Future Generation Wireless Applications* - (15530-FA22)  
Sponsor: National Science Foundation (NSF)  
Co-PI:  
6,000

**Mechanical Engineering**

*McNeill, Stephen*

*Characterization and Model Assessment for Impact Damage Evolution in Functionally Graded Composites Using a Novel Nano-Second 3D Deformation Measurement System* - (15540-FA25)  
Sponsor: Department of the Army/DOD  
Co-PI:  
40,000

*Reynolds, Anthony*

*Supplemental Request for Friction Stir Processing IUCRC* - (15540-FA55)  
Sponsor: National Science Foundation (NSF)  
Co-PI:  
33,530

**Environment, School of the**

Environment, School of the

*Coul, Bruce*

"Interdisciplinary Workshops for SIE Teachers in the South Carolina Lowcountry" - (10060-KL02)  
Sponsor: The Dorothy and Gaylord Donnelly Foundation  
Co-PI:  
10,000

**Mass Communications & Information Studies, College of**

Mass Communications & Information Studies, College of

*Jackson, Patricia*

*Interactive IVT Training* - (15600-FL28)  
Sponsor: Social Security Administration (SSA)  
Co-PI:  
14,690
Library & Information Sciences, School of
Williams, Robert
US State Department Training Workshops  -  (15700-FJ00)  11,769
Sponsor: US State Dept. Foreign Service Institute Office of Acquisitions
Co-PI:

Medicine, School of
Cell & Developmental Biology & Anatomy
Carver, Wayne
Role of ADAMs in Heart Myocyte Development  -  (18020-FA01)  252,875
Sponsor: National Heart, Lung & Blood Institute (NHLBI)/NIH
Co-PI:

Family & Preventive Medicine
McDermott, Suzanne
SC Disability and Health Project 18130-FL06 12/8/04  -  (18130-FL07)  354,545
Sponsor: Centers for Disease Control/HHS
Co-PI:

Internal Medicine
Sy, Alexander
A Prospective, Randomized, Double-Blind, Placebo Controlled, Dose Ranging, Multi-Center Study of the Safety and Efficacy of Three Days Continuous Intravenous Infusion of GR270773 in the Treatment of Suspected or Confirmed Gram-Negative Severe Sepsis in Adults  -  (18190-JA21)  12,027
Sponsor: GlaxoSmithKline
Co-PI: Barker, James      Elko, Lucinda

A Phase 3, Multi-Center, Randomized, Placebo-Controlled, Double-Blind, Three-Arm Study to Evaluate the Safety and Efficacy of Tifacogin (Recombinant Tissue Factor Pathway Inhibitor) Administration in Subjects with Severe Community-Acquired Pneumonia  -  (18190-JA25)  14,400
Sponsor: Chiron Corporation
Co-PI: Barker, James      Elko, Lucinda

Neuropsychiatry
Wright, Harry
Molecular and Genetic Epidemiology of Autism  -  (18120-FA01)  50,000
Sponsor: Duke University/NIH
Co-PI:
**Obstetrics & Gynecology**

Best, Robert  
*Genetic Services for Indigent & Underserved Patients (DHEC)* - (18110-GL03)  
**Sponsor:** SC Department of Health & Environmental Control (DHEC)  
**Co-PI:**  
4,618

**Pathology**

Creek, Kim  
*HPIV16-Induced TGF-Beta Resistance in Human Keratinocytes* - (18070-FA02)  
**Sponsor:** National Cancer Institute (NCI)/NIH  
**Co-PI:**  
258,100

**Pharmacy, College of**

**Pharmacy Practice**

Dickson, W.  
*Antibiotic Prescribing in the Public and Private Sector* - (11150-FL00)  
**Sponsor:** SC Department of Health & Environmental Control/CDC  
**Co-PI:**  
15,500

Phillips, Cynthia  
*Educational Enhancement of University of South Carolina Doctor of Pharmacy Candidates* - (11150-GJ04)  
**Sponsor:** SC Area Health Education Centers  
**Co-PI:** Rowen, Randall  
7,500

**Public Health, Arnold School of**

**Environmental Health Sciences**

Newman, Lee  
*Joint USC-Savannah River Ecology Laboratory Faculty* - (11510-FA41)  
**Sponsor:** University of Georgia/DOE  
**Co-PI:**  
35,000
## Sponsored Awards Management (SAM)
April, 2005  New Awards

### Exercise Science
**Pfeiffer, Karin**

- **Baseline BMI Surveillance in Children** - (11530-FA23)  
  - **Sponsor:** SC Research Authority/DHEC/HHS  
  - **Co-PI:**

- **Impact of Physical Fitness and Exercise** - (11570-FA47)  
  - **Sponsor:** The Cooper Institute  
  - **Co-PI:**

### Prevention Research Center
**Vena, John**

- **Impact of Physical Fitness and Exercise** - (11570-FA47)  
  - **Sponsor:** The Cooper Institute  
  - **Co-PI:**

### Public Health, Arnold School of - Dean
**Glover, Saundra**

- **African American Public Health Fellowship and Development Program to Address Health Disparities** - (11500-KJ01)  
  - **Sponsor:** W. K. Kellogg Foundation  
  - **Co-PI:**

### Social Work, College of
**Families in Society, Institute for**
**Motes, Patricia**

- **Traunty and Other School Related Offenses: An Investigation of Disproportionate Minority Contact in South Carolina’s Juvenile Justice System** - (10010-FA30)  
  - **Sponsor:** SC Department of Education/DOJ  
  - **Co-PI:**

### Social Work, College of
**Paget, Kathleen**

- **Proposal to Evaluate the Hendley Homes Hope VI Revitalization Project** - (15900-FL26)  
  - **Sponsor:** City of Columbia Housing Authority/HUD  
  - **Co-PI:**
Senior and Regional Campuses

**USC Aiken**
Allen, Gloria  
*Mathematics and Science Unit Coaching Initiative* - (17110-GL24)  
**Sponsor:** SC Department of Education  
**Co-PI:**

**USC Lancaster**
Cox, Ramie  
*USC Lancaster Child Development Center* - (17550-GL01)  
**Sponsor:** Lancaster County First Steps Partnership Board  
**Co-PI:**

**USC Salkehatchie**
Goodson, Suzanne  
*Character Education Professional Development Teacher's Academy* - (17660-GL04)  
**Sponsor:** SC Department of Education  
**Co-PI:**

Report Total: $4,711,157