Sponsored research activity (processed in the Research Office) in FY10 totaled just over $30,000,000, a 12% increase over FY09. More dramatically, it is a 54% increase since FY08. A notable factor is that unlike FY09 there were fewer grants of $1,000,000 plus so that the total was achieved with an increased number of grants rather than a number of large grants. The figures demonstrate the increased engagement of faculty and staff in pursuing external funding. The results also cannot be solely attributed to the American Recovery and Reinvestment Act of 2009 (ARRA economic stimulus research funding).

Whatever the factors there is no doubt that it was a very good year. Congratulations to all.

CUMULATIVE AWARDS OVER $500,000

- **$4,259,326**
  - Brenda Hopper
  - RBS/SBDC

- **$1,124,531**
  - Gyorgy Buzsaki
  - CMBN

- **$895,450**
  - Daniel Murnick
  - Physics

- **$2,322,500**
  - Alex Plinio
  - RBS

- **$1,429,014**
  - Mauricio Delgado
  - Psychology

- **$1,124,531**
  - Gyorgy Buzsaki
  - CMBN

- **$966,042**
  - James Tepper
  - CMBN

- **$767,464**
  - Alex Gates
  - Earth & Environmental Sciences

- **$746,863**
  - Deborah Walker-McCall
  - Academic Foundations

- **$649,699**
  - Rachel Jones
  - College of Nursing

- **$672,559**
  - Elizabeth Abercrombie
  - CMBN

- **$572,746**
  - Todd Clear
  - School of Criminal Justice

- **$710,000**
  - Pietr Pietrowski
  - Chemistry

- **$632,396**
  - Wilma Friedman
  - Biological Sciences

- **$524,684**
  - Lee Slater
  - Earth & Environmental Sciences

- **$510,000**
  - Piotr Piotrowiak
  - Chemistry

- **$566,006**
  - Marc Holzer
  - SFAA

- **$524,684**
  - Lee Slater
  - Earth & Environmental Sciences

- **$566,006**
  - Marc Holzer
  - SFAA

- **$524,684**
  - Lee Slater
  - Earth & Environmental Sciences

- **$566,006**
  - Marc Holzer
  - SFAA

- **Your name here in 2011**

Congratulations!
<table>
<thead>
<tr>
<th>Name</th>
<th>Sponsor</th>
<th>Title</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hopper</td>
<td>SBDC/RBS</td>
<td>US Small Business Administration</td>
<td>$2,994,605</td>
</tr>
<tr>
<td>Plinio</td>
<td>RBS</td>
<td>Support for Inst. On Ethical Leadership</td>
<td>$2,000,000</td>
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<tr>
<td>Kustka</td>
<td>FASN-Earth and Environmental Sciences</td>
<td>ARRA: Collaborative Research: Modified Circumpolar Deep Water Intrusions as an Iron Source to the Summer Ross Sea Ecosystem</td>
<td>$837,893</td>
</tr>
<tr>
<td>Murnick</td>
<td>FASN-Physics</td>
<td>Development of Carbon 14 Analyzer</td>
<td>$741,190</td>
</tr>
<tr>
<td>Jones</td>
<td>College of Nursing</td>
<td>Reducing HIV Risk in Urban Women: Soap Opera Videos on Video-Capable Cell Phones</td>
<td>$649,699</td>
</tr>
<tr>
<td>Piotrowiak</td>
<td>FASN-Chemistry</td>
<td>ARRA: Development of an Ultrafast Fluorescence Microscope Based on Femtosecond Image Amplification</td>
<td>$540,000</td>
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<tr>
<td>Hopper</td>
<td>NJSBDC</td>
<td>New Jersey Schools Development Authority</td>
<td>$510,000</td>
</tr>
<tr>
<td>Holzapfel</td>
<td>FASN-Biology</td>
<td>Understanding and Combating the Fire-enhancing Impact of Non-native Annuals in Deserts</td>
<td>$487,720</td>
</tr>
<tr>
<td>Holzer</td>
<td>SPAA</td>
<td>Sustainable Public Performance Measurement &amp; Reporting Network</td>
<td>$450,306</td>
</tr>
<tr>
<td>Tricomi-Shiflett</td>
<td>FASN-Psychology</td>
<td>NIH-NIDA</td>
<td>ARRA: Investigating the neural processing of negative feedback across rats and humans</td>
</tr>
<tr>
<td>Pare</td>
<td>CMBN</td>
<td>Role of Intercalated amygdala neurons in the extinction of conditioned fear</td>
<td>$386,250</td>
</tr>
<tr>
<td>Pare</td>
<td>CMBN</td>
<td>Associative properties of the perirhinal network</td>
<td>$385,104</td>
</tr>
<tr>
<td>Jordan</td>
<td>FASN-Chemistry</td>
<td>Structure and Mechanism of alpha-Ketoacid Decarboxylases and Dehydrogenases</td>
<td>$370,300</td>
</tr>
<tr>
<td>Gates</td>
<td>FASN-Earth and Environmental Sciences</td>
<td>NSF</td>
<td>Graduate Teaching Fellows Newark Public Schools: A Collaborative Model for Developing Inquiry-Driven Science Classrooms</td>
</tr>
<tr>
<td>Walker-McCall</td>
<td>FASN-AFC</td>
<td>The Ready Charitable Fund, Inc. READY Program</td>
<td>$349,941</td>
</tr>
<tr>
<td>Lev</td>
<td>College of Nursing</td>
<td>NIH</td>
<td>Efficacy of Interventions to Promote Research Careers</td>
</tr>
<tr>
<td>Delgado</td>
<td>FASN-Psychology</td>
<td>NIH/NIDA</td>
<td>Neural mechanisms of avoidance learning and active coping via emotion regulation</td>
</tr>
<tr>
<td>Delgado</td>
<td>FASN-Psychology</td>
<td>NIH-NIDA</td>
<td>Neural mechanisms of avoidance learning and active coping via emotion regulation</td>
</tr>
<tr>
<td>Abercrombie</td>
<td>CMBN</td>
<td>NIH-NINDS</td>
<td>Basil Ganglia Function in Huntington's Disease: Genetic Mouse Models</td>
</tr>
<tr>
<td>Tepper</td>
<td>CMBN</td>
<td>NIH-NINDS</td>
<td>Nigrostriatal dopamine function</td>
</tr>
</tbody>
</table>
### SINGLE AWARDS OVER $300,000

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>Project Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Friedman Wilma</td>
<td>FASN-Biology</td>
<td>NIH-NINDS Neurotrophins in the Injured Brain</td>
<td>$334,590</td>
</tr>
<tr>
<td>Gates Alexander</td>
<td>FASN-Earth and Environmental Sciences</td>
<td>NSF Highlands to Piedmont: A New Jersey Geoscience Program in Newark, NJ</td>
<td>$333,094</td>
</tr>
<tr>
<td>Delgado Mauricio</td>
<td>FASN-Psychology Kent Harber</td>
<td>NIH-NIMH Modulation of human reward circuitry by social factors</td>
<td>$330,244</td>
</tr>
<tr>
<td>Delgado Mauricio</td>
<td>FASN-Psychology</td>
<td>NIH-NIMH Modulation of human reward circuitry by social factors</td>
<td>$326,102</td>
</tr>
<tr>
<td>Zaborszky Laszlo</td>
<td>CMBN</td>
<td>NIH-NINDS Afferent Regulation of Cholinergic Forebrain Neurons</td>
<td>$326,020</td>
</tr>
<tr>
<td>Alizadeh Farid</td>
<td>RBS</td>
<td>NSF Optimization over positive or sum of square functions with applications to constrained approximation</td>
<td>$325,000</td>
</tr>
<tr>
<td>Buzsaki Gyorgy</td>
<td>CMBN</td>
<td>NIH-NIMH Hippocampal Interneuronal Network (MH 54671)</td>
<td>$323,100</td>
</tr>
<tr>
<td>Buzsaki Gyorgy</td>
<td>CMBN</td>
<td>NIH-NIMH CRCNS: Dynamics of the Auditory Cortical Column</td>
<td>$305,913</td>
</tr>
<tr>
<td>Buzsaki Gyorgy</td>
<td>CMBN</td>
<td>NIH-NINDS Network cooperation in the hippocampus in vivo</td>
<td>$301,130</td>
</tr>
<tr>
<td>Koos Tibor</td>
<td>CMBN</td>
<td>NIH-NINDS Dopamine modulation of the neostriatal feedback circuitry</td>
<td>$300,753</td>
</tr>
<tr>
<td>Gao Yuan</td>
<td>FASN-Earth and Environmental Sciences</td>
<td>NSF Characterization of atmospheric iron over and its fluxes to the Southern Ocean through shipboard measurements</td>
<td>$300,000</td>
</tr>
<tr>
<td>He Huixin</td>
<td>FASN-Chemistry</td>
<td>NSF Novel Self Assembly for Efficient and Safe siRNA Delivery</td>
<td>$300,000</td>
</tr>
</tbody>
</table>

### ONE YEAR AGO

There were 14 names in the group with cumulative awards over $500,000

There were 27 names in the group with single awards of $300,000 plus

### NOW

There are 17 names in the group with cumulative awards over $500,000

There are 39 names in the group with single awards of $300,000 plus
CHANCELLOR'S OFFICE
Office of Campus and Community Relations—$337,600
Paul Robeson Gallery - $42,466
Visiting Israeli Professor - $50,000

FACULTY OF ARTS AND SCIENCES
Academic Foundations Center - $746,863
Biological Sciences - $1,990,733
Chemistry - $2,280,383
Dean's Office - $150,000
Earth and Environmental Sciences - $2,611,201
English - $6,300
History (IECME) - $117,896
Mathematics - $690,402
Physics - $1,114,525
Psychology - $2,215,804
Urban Education - $200,000

RUTGERS BUSINESS SCHOOL
ABEIS—$25,025
CIMIC—$419,806
Inst. for Ethical Leadership - $2,322,500
Mgt. and Global Business—$27,000
MSCIS - $528,000
RU Technical Assistance Project - $100,000
SCMMS - $10,000
Urban Entrepreneurship (CUEED) - $275,130

Congratulations!
### BY FUNDING AGENCY DOLLARS — FY/10 / FY09 / FY08 / FY07

<table>
<thead>
<tr>
<th>Funding Agency</th>
<th>FY10</th>
<th>FY09</th>
<th>FY08</th>
<th>FY07</th>
</tr>
</thead>
<tbody>
<tr>
<td>Federal - NIH</td>
<td>$9,085,679</td>
<td>$5,291,282</td>
<td>$3,940,598</td>
<td>$6,278,403</td>
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<tr>
<td>Federal - NSF</td>
<td>$5,541,945</td>
<td>$3,701,860</td>
<td>$2,815,480</td>
<td>$2,503,289</td>
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<tr>
<td>Federal - Other</td>
<td>$6,029,821</td>
<td>$4,883,440</td>
<td>$4,370,385</td>
<td>$3,343,322</td>
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<tr>
<td>Federal Indirect*</td>
<td>$1,526,664</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Corporate and Foundation*</td>
<td>$5,583,098</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Foundations</td>
<td>N/A</td>
<td>$8,065,970</td>
<td>$4,002,420</td>
<td>$4,239,714</td>
</tr>
<tr>
<td>Industry</td>
<td>N/A</td>
<td>$512,995</td>
<td>$920,714</td>
<td>$398,790</td>
</tr>
<tr>
<td>Other 2010*</td>
<td>$361,437</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Other</td>
<td>N/A</td>
<td>$2,222,068</td>
<td>$1,693,483</td>
<td>$664,934</td>
</tr>
<tr>
<td>State of NJ</td>
<td>$1,573,506</td>
<td>$1,835,625</td>
<td>$1,404,571</td>
<td>$2,986,474</td>
</tr>
<tr>
<td>Local Govt.</td>
<td>$353,663</td>
<td>$423,000</td>
<td>$329,450</td>
<td>$494,818</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>$30,055,813</strong></td>
<td><strong>$26,936,240</strong></td>
<td><strong>$19,477,101</strong></td>
<td><strong>$20,909,744</strong></td>
</tr>
</tbody>
</table>

*The amounts were reclassified in FY10 to better reflect the true amount of federal dollars awarded. In prior years the amount now listed as Federal Indirect (flow thru via universities, hospitals, etc.) might have appeared in the Other category. Corporate and foundation are now listed together. Corporate and foundation were combined into one category.*

### BY AWARD TYPE

- **NEW**: 100
- **CONTINUATION**: 56
- **RENEWAL**: 50
- **SUPPLEMENT**: 11
1) Funding from the National Institutes of Health in this period dramatically increased over the awards of the past three years. See page 6.

2) National Science Foundation funding in this period also posted an increase. See page 6.

3) In years past the external non governmental funding was close to 50% on the Newark campus. This year federal funding is quite definitely the major funding source. The picture is even clearer now that the flow through federal funding is separately identified. Federal funding generates the greater indirect cost returns. See page 6.

4) Funding under the American Recovery and Reinvestment Act of 2009 in this period totaled $2,866,239. While this had an effect on the numbers it does not solely account for the funding increase in this period.

5) Funding from the State of New Jersey decreased.

6) External funding depends, in most cases, on the submission of written proposals. The number of outgoing proposals (as recorded in the Research Office) increased in this period.

1) Brenda Hopper and the activities in the Small Business Development Center continue to top the list of single projects receiving federal funding. The Center recently received funding for the creation of a Veterans Business Outreach Program (VBCC)

2) The Department of Earth and Environmental Sciences generated the most dollars within the Faculty of Arts and Sciences (see page 4). The Department also manages the NSF funded Louis Stokes Alliances for Minority Participation (LSAMP).

3) It may take determined effort but Young Investigators (defined as those not yet in receipt of major federal funding) continue to lose their youth. Included this year were John Sheridan, Chemistry; Elizabeth Tricomi, Psychology and Claus Holzapfel, Biology. Immediate apologies to anyone not mentioned.

4) The Paul Robeson Gallery received a citation of excellence from the NJ State Council on the Arts
**Synergy**, in general, may be defined as two or more agents working together to produce a result not obtainable by any of the agents independently.

*Wikipedia—the free encyclopedia*

### WHY EVERY GRANT COUNTS

- **$551,000-$3,000,000**: 5 (2%)
- **$300,000 - $550,000**: 29 (13%)
- **$150,000—$299,000**: 31 (14%)
- **$50,000 - $149,000**: 42 (20%)
- **Under $50,000**: 110 (51%)
  (Approx. half are under $20,000)

**Total**: $30,055,813
http://researchoffice.newark.rutgers.edu/

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973-353-1537, wandaj@andromeda.rutgers.edu