

**Research News**

**Vol. 4 No 5**



*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**

**\$4,259,526**  
Brenda Hopper  
RBS/SBDC

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

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

*Congratulations!*

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

**\$996,042**  
James Tepper  
CMBN

**\$906,484**  
Adam Kustka  
Earth & Environmental  
Sciences

*Congratulations!*

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

**\$807,843**  
Denis Pare  
CMBN

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

*Congratulations!*

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

**\$710,000**  
Piotr Piotrowiak  
Chemistry

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

*Congratulations!*

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

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

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

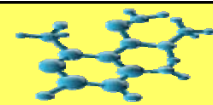
*Congratulations!*

**\$566,606**  
Marc Holzer  
SPAA

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

Your name here  
in 2011

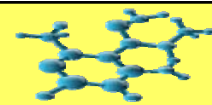
*Congratulations!*



SINGLE AWARDS OVER \$300,000



Hopper	Brenda	SBDC/RBS	Deborah Smarth	US Small Business Administration	NJ Small Business Development Centers	\$2,994,605
Plinio	Alex	RBS		Prudential Financial, Inc	Support for Inst. On Ethical Leadership	\$2,000,000
Kustka	Adam	FASN-Earth and Environmental Sciences		NSF	ARRA: Collaborative Research: Modified Circumpolar Deep Water Intrusions as an Iron Source to the Summer Ross Sea Ecosystem	\$837,893
Murnick	Daniel	FASN-Physics		NSF	Development of Carbon 14 Analyzer	\$741,190
Jones	Rachel	College of Nursing		NIH-NINR	Reducing HIV Risk in Urban Women: Soap Opera Videos on Video-Capable Cell Phones	\$649,699
Piotrowiak	Piotr	FASN-Chemistry		NSF	ARRA: Development of an Ultrafast Fluorescence Microscope Based on Femtosecond Image Amplification	\$540,000
Hopper	Brenda	NJSBDC	Deborah Smarth	NJ Schools Development Authority	New Jersey Schools Development Authority	\$510,000
Holzapfel	Claus	FASN-Biology		US Army Corps of Engineers	Understanding and Combating the Fire-enhancing Impact of Non-native Annuals in Deserts	\$487,720
Holzer	Marc	SPAA		Sloan Foundation	Sustainable Public Performance Measurement & Reporting Network	\$450,306
Tricomi-Shiflett	Elizabeth	FASN-Psychology	Michael Shiflett	NIH-NIDA	ARRA: Investigating the neural processing of negative feedback across rats and humans	\$431,678
Pare	Denis	CMBN		NIH/NIMH	Role of Intercalated amygdala neurons in the extinction of conditioned fear	\$386,250
Pare	Denis	CMBN		NIH/NIMH	Associative properties of the perirhinal network	\$385,104
Jordan	Frank	FASN-Chemistry		NIH-NIGMS	Structure and Mechanism of alpha-Ketoacid Decarboxylases and Dehydrogenases	\$370,300
Gates	Alexander	FASN-Earth and Environmental Sciences		NSF	Graduate Teaching Fellows Newark Public Schools: A Collaborative Model for Developing Inquiry-Driven Science Classrooms	\$364,370
Walker-McCall	Deborah	FASN-AFC		The Ready Charitable Fund, Inc.	READY Program	\$349,941
Lev	Elise	College of Nursing		NIH	Efficacy of Interventions to Promote Research Careers	\$347,625
Delgado	Mauricio	FASN-Psychology		NIH/NIDA	Neural mechanisms of avoidance learning and active coping via emotion regulation	\$344,149
Delgado	Mauricio	FASN-Psychology		NIH-NIDA	Neural mechanisms of avoidance learning and active coping via emotion regulation	\$343,265
Abercrombie	Elizabeth	CMBN		NIH- NINDS	Basil Ganglia Function in Huntington's Disease: Genetic Mouse Models	\$337,969
Tepper	James	CMBN		NIH-NINDS	Nigrostriatal dopamine function	\$337,969



SINGLE AWARDS OVER \$300,000



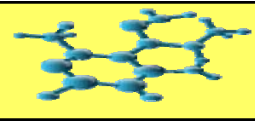
Friedman	Wilma	FASN-Biology		NIH-NINDS	Neurotrophin in the Injured Brain	\$334,590
Gates	Alexander	FASN-Earth and Environmental Sciences		NSF	Highlands to Piedmont :A New Jersey Geoscience Program in Newark, NJ	\$333,094
Delgado	Mauricio	FASN-Psychology	Kent Harber	NIH/NIMH	Modulation of human reward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

ONE YEAR AGO

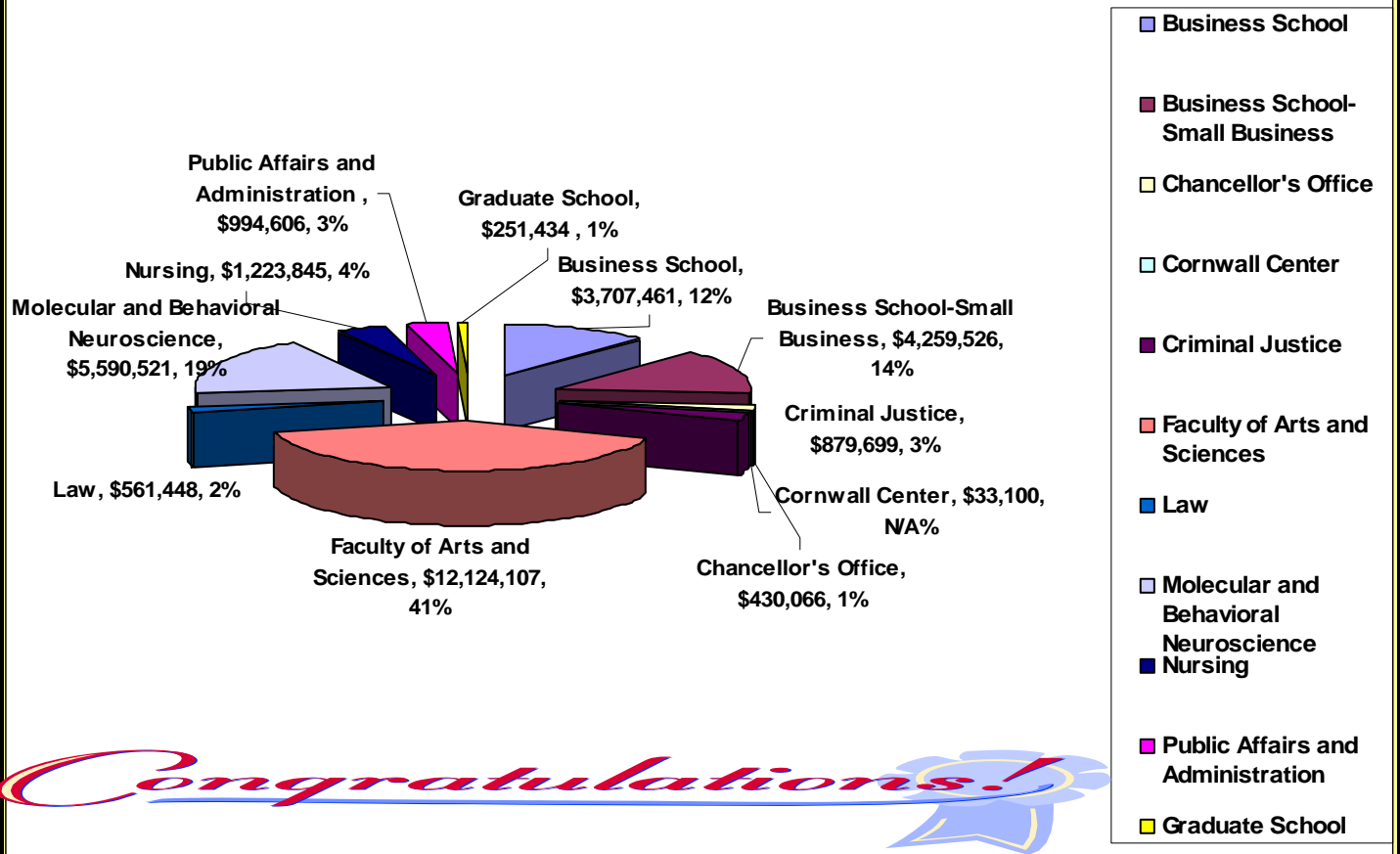
There were 14 names in the group with cumulative awards over \$500,000  
There were 27 names in the group with single awards of \$300,000 plus

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



BY DEPARTMENT



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

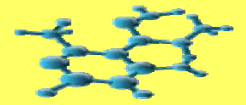
- Academic Foundations Center - \$746,863
- Biological Sciences - \$1,990,733
- Chemistry - \$2,280,383
- Dean's Office - \$150,000
- Earth and Environmental Sciences - \$2,611,201
- English - \$6,300
- History (IECME) - \$117,896
- Mathematics—\$690,402
- Physics - \$1,114,525
- Psychology - \$2,215,804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



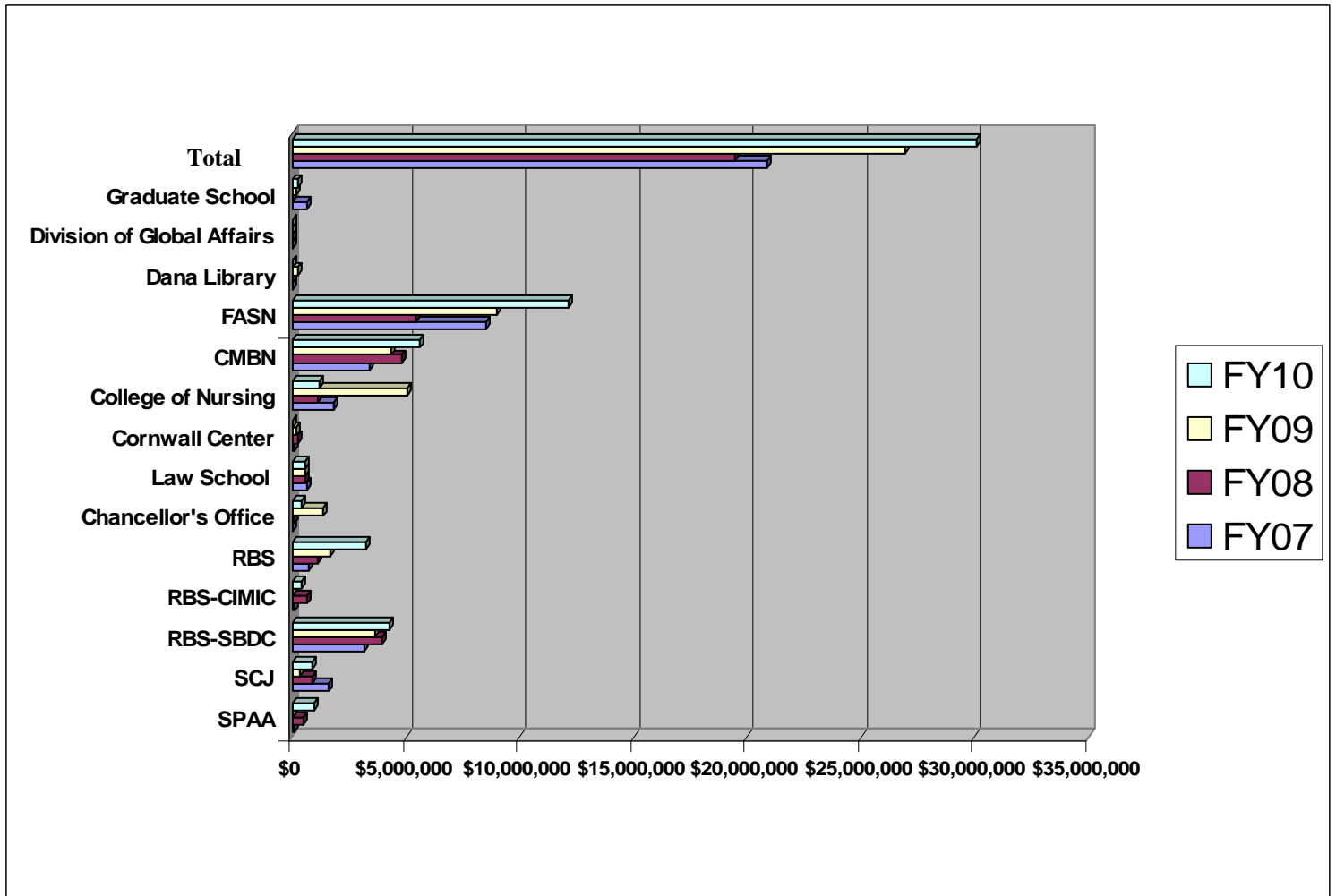
RUTGERS BUSINESS SCHOOL

- 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

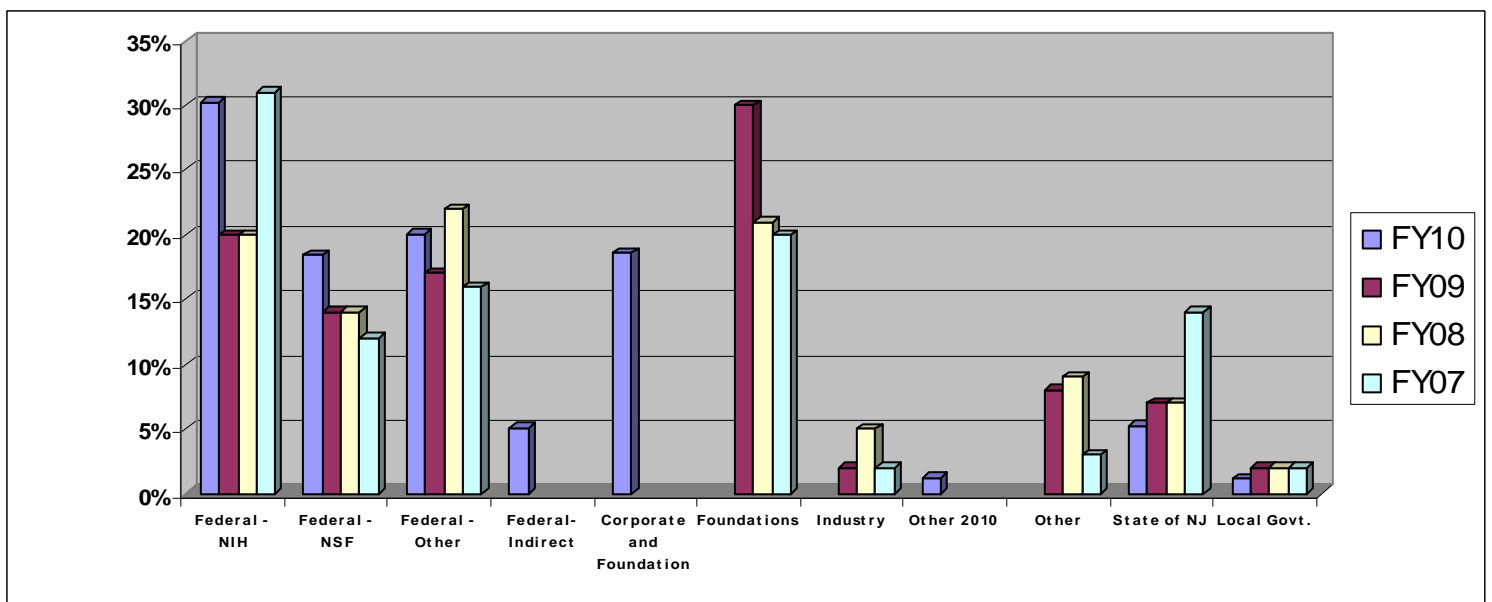


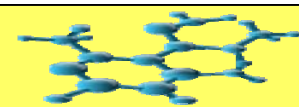


**BY DEPARTMENT - FY10 / FY09 / FY08 / FY07**



**BY FUNDING AGENCY TYPE - FY10 / FY09 / FY08 / FY07**





**BY FUNDING AGENCY DOLLARS — FY/10 / FY09 / FY08 / FY 07**

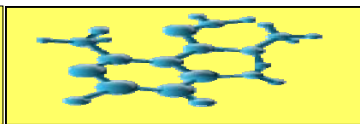
	<b>FY10</b>	<b>FY09</b>	<b>FY08</b>	<b>FY07</b>
Federal - NIH	\$9,085,679	\$5,291,282	\$3,940,598	\$6,278,403
Federal - NSF	\$5,541,945	\$3,701,860	\$2,815,480	\$2,503,289
Federal - Other	\$6,029,821	\$4,883,440	\$4,370,385	\$3,343,322
Federal Indirect*	\$1,526,664	N/A	N/A	N/A
Corporate and Foundation*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

\*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**





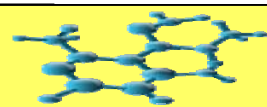


**BOO 558 1 B**  
**THE STORIES AND THE PEOPLE BEHIND THE NUMBERS**

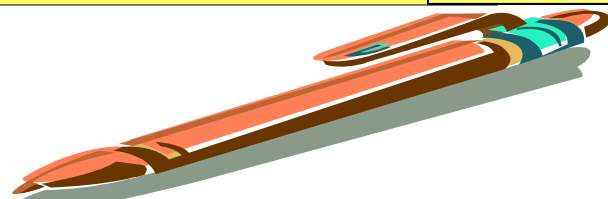
- 1) *Funding from the National Institutes of Health in this period dramatically increased over the awards of the past three years. See page 6.*
- 2) *National Science Foundation funding in this period also posted an increase. See page 6.*
- 3) *In years past the external non governmental funding was 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.*

So many stories, not much room

- 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 (VBOC)*
- 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*



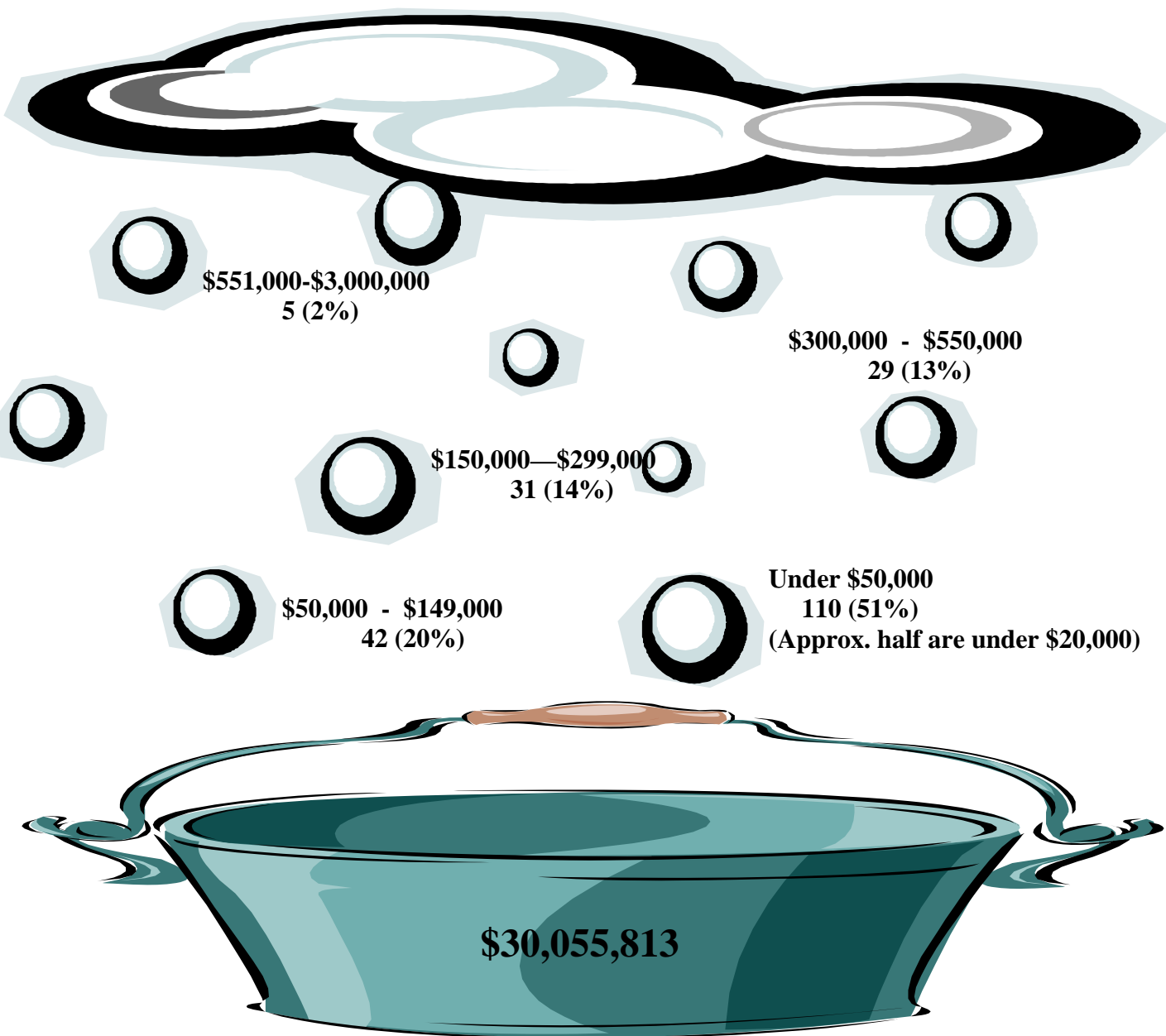
# UNSCRIPTED



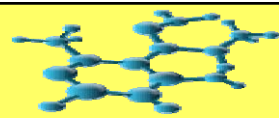
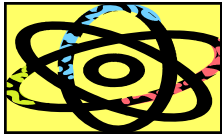
**Synergy**, in general, may be defined as two or more agents working together to produce a result not obtainable by any of the agents independently.

*Wikipedia—the free encyclopedia*

## WHY EVERY GRANT COUNTS







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NEWARK

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