RUTGERS UNIVERSITY | NEWARK



The Research Office ANNUAL REPORT FY14

July 1, 2013 - June 30, 2014

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Nancy Cantor Chancellor Rutgers University—Newark



Nabil Adam Vice Provost for Research Rutgers University—Newark

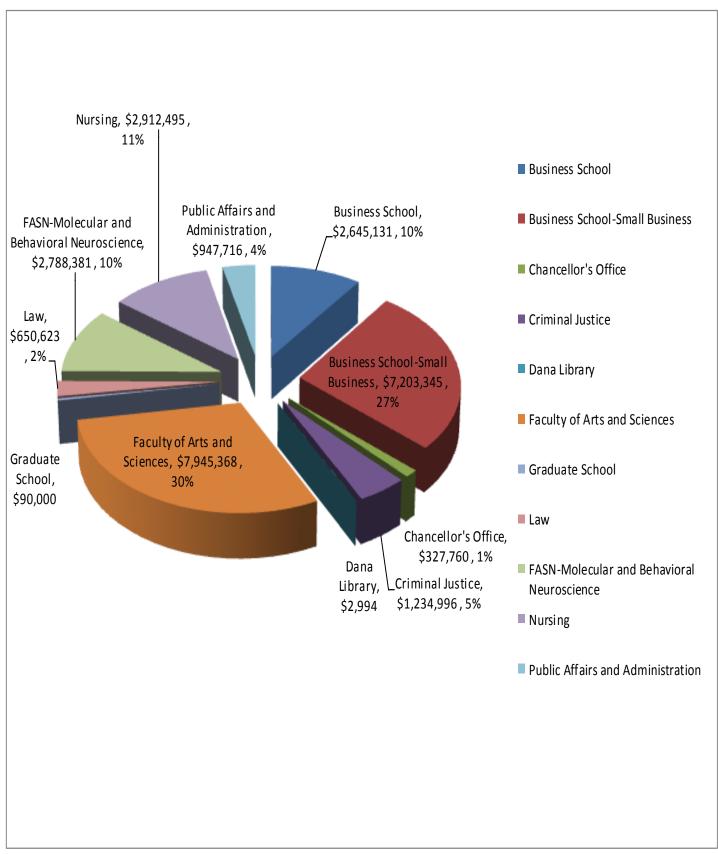
FY 14 CUMULATIVE AWARDS MORE THAN \$ 500,000

Brenda Hopper	Rutgers Business School-SBDC	\$7,198,345	
Edna Cadmus	College of Nursing	\$1,606,178	
Alexander Gates	FASN-Earth & Environmental Sciences	\$1,060,000	
James Abruzzo/ Alex Plinio	Rutgers Business School-IEL	\$ 940,000	
Karen D'Alonzo	College of Nursing	\$ 586,916	
Linda Tartaglia	School of Criminal Justice	\$ 571,484	
Elena Galoppini	FASN-Chemistry	\$ 547,900	
Wilma Friedman	FASN-Biological Sciences	\$ 532,800	
James Tepper	FASN-CMBN	\$ 527,041	
Lee Slater	FASN-Earth & Environmental Sciences	\$ 512,247	

FY14 SINGLE AWARDS MORE THAN \$300,000

PI Name		Department	Co-PI	Funding Agency	Project Title	Award Amount
Hopper	Brenda	RBS-NJSBDC	Deborah Smarth	US Small Business Administartion	Phase Two: Hurricane Sandy Small ness Revitalization Opportunity	Busi- \$3,582,000
Hopper	Brenda	RBS-NJSBDC	Deborah Smarth	US Small Business Administartion	n NJ Small Business Development Cer	nter \$2,989.940
Cadmus	Edna	College of Nursing	Susan Salmond	NJ Department fo Health and Senior Services	Rutgers University Training into Pra Residency Model for Long Term Car	\$1,605,553
Gates	Alexander	FASN-Earth and Enviromental Sciences		National Science Foundation	LSAMP - The Garden State Alliance Minority Participation	for \$1,000,000
Abruzzo	James	RBS-IEL	Alex Plinio	Prudential Foundation	General Operating Support for Insti for Ethical Leadership and Support Nonprofit Executive Leadership Fell Program	for the \$850,000
Tartaglia	Linda	School of Criminal Justice	James Sheehan, Rachel Tkatch	County of Morris, UASI Committee	Urban Area Security Integration (UA	ASI) \$541,058
Friedman	Wilma	FASN-Biological Sciences		NIH/NINDS	Modulating ProNGF-Induced Cell De Epilepsy: Strategies for Neuroprote	5537.809
Tepper	James	FASN-CMBN		NIH/NINDS	Functional Striatal Microcircuits in vand in vitro	vivo \$527,041
Zaborszky	Laszlo	FASN-CMBN		NIH/NINDS	Afferent Regulation of Cholinergic Forebrain Neurons	\$426,481
Jaekle	Frieder	FASN-Chemistry		National Science Foundation	SusChEM: Polymer-Supported Frust Lewis Pairs (FLPs)	strated \$390,000
Pare	Denis	FASN-CMBN		NIH/NIMH	Functional organization of the bed of the stria terminalis	nucleus \$387,500
Cali	Ann	FASN-Biological Sciences		National Institutes of Health/ NIAID	Assembly dynamics and role of PI4F riched replication organelles for enteroviral RNA replication in vivo	9 en- \$384,150
Krekelberg	Bart	FASN-CMBN		NIH/NEI	Eye Movements and Visual Percept	ion \$379,750
Koos	Tibor	FASN-FASN-CMBN	James Tepper	NIH/NINDS	Optogenetic Analysis of Neostriatal cuits Engaged by Cholinergic Interne	5335.b/3
Slater	Lee	FASN-Earth and Environmental Sciences	Kristina Keating	DoD, US Army Corps of Engineers	Investigating the Sensitivity of Emer Geophysical Technologies to Immol Porosity and Isolated DNAPL and Di Sorbed VOC Mass in Fractured Med	olie ssoled/ \$334,916
Delgado	Mauricio	FASN-Psychology		NIH/NIDA	Neural mechanisms of avoidance le and active coping via emotion regul	~ ~~~ ×/~
Maurel	Patrice	FASN-Biological Sciences		NIH/NINDS	Nectin-like cell adhesion molecules the mechanism of myelination	and \$327,196
D'Alonzo	Karen	College of Nursing		US Dept. of Health and Human Services: HRSA	Nurse Faculty Loan Program (NFLP)	\$316,952
Eastman	Wayne	RBS-SCMMS	Donald Knock, Thomas York	US Department of Labor	Trade Adjustment Assistance Comm College and Career Training Program (TAACCT)	•
Willard	Suzanne	College of Nursing		Health Resources and Services Administration (HRSA)	Preparing Nurse Practitioners to Ca HIV in an Urban & Inner City Popula	\$300 000
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FY14 AWARDS BY DEPARTMENT



FY14 AWARDS BY DEPARTMENTAL UNIT

Faculty of Arts and Sciences (FASN)

Academic Foundations	\$ 476,723
Biology	\$2,063,126
CMBN	\$2,788,381
Chemistry	\$1,196,748
Urban Education	\$ 730,916
Earth & Environmental Sciences	\$2,275,460
History	\$ 66,070
Mathematics	\$ 246,454
Physics	\$ 50,000
Psychology	\$ 810,170
Sociology	\$ 5,000
Robeson	\$ 24,701

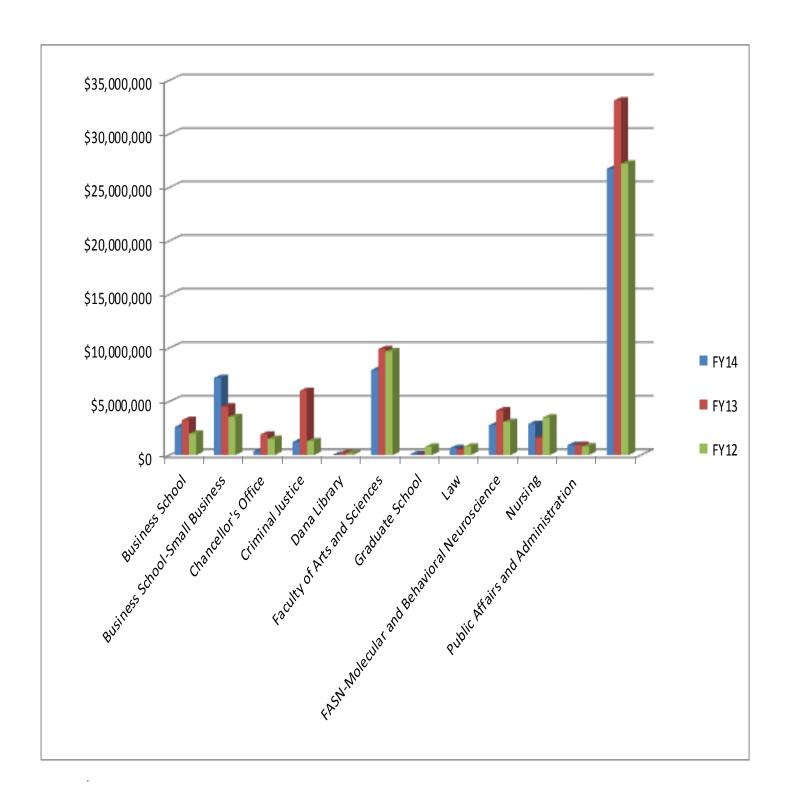
Rutgers Business School

Dean's Office	\$	81,252
Accounting and Information Science	\$	358,250
Finance and Economics	\$	63,958
Institute for Ethical Leadership	\$	940,000
Management and Global Business	\$	142,647
Management Science & Information Systems	\$	487,346
Marketing	\$	120,000
RU Technical Assistance Project	\$	100,000
Supply Chain Management & Marketing Sciences	\$	351,678
Small Business Development Center (SBDC)	\$7	,203,345

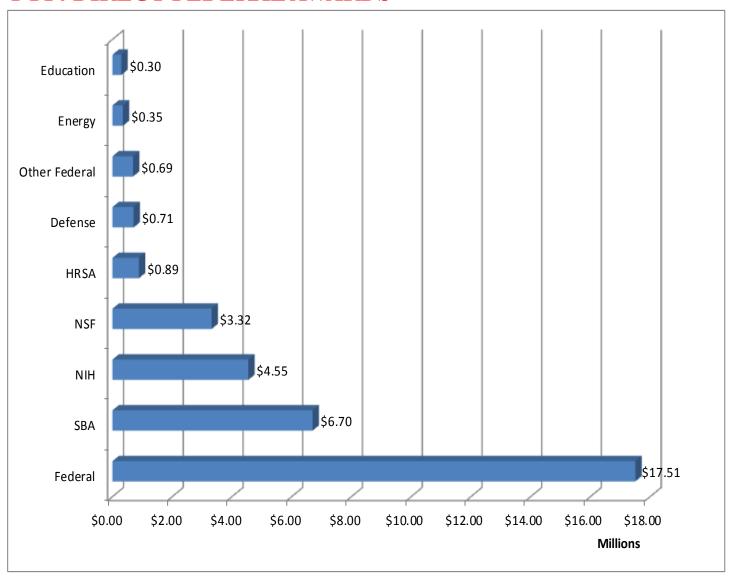
Chancellor's Office

Office of University-Community Partnerships \$ 327,760

FY14 AWARDS BY DEPARTMENT - FY14 / FY13 / FY12



FY14 DIRECT FEDERAL AWARDS



FY14 AWARDS BY FUNDING SOURCE

Federal Awards	\$17,506,754	65%
Foundations/Industry	\$ 4,268,184	16%
State of New Jersey	\$ 2,745,357	10%
Local Government	\$ 1,089,783	4%
Other	\$ 1,138,731	4%

FY14 AWARDS BY FUNDING SOURCE—FY14/13/12/11/10

	FY14	FY13	FY12	FY11	FY10
Federal - NIH	\$4,553,579	\$7,548,843	\$6,556,042	\$7,566,747	\$9,085,679
Federal - NSF	\$3,319,989	\$5,147,456	\$3,348,047	\$5,303,411	\$5,541,945
Federal - Other	\$9,633,186	\$9,250,785	\$7,195,823	\$8,998,700	\$6,029,821
Federal Indirect (Subcontracts)	N/A	\$713,947	\$939,016	\$1,662,385	\$1,526,664
Corporate and Foundation	\$4,268,184	\$8,408,955	\$5,883,337	\$3,704,639	\$5,583,098
Other	\$1,138,731	\$635,226	\$1,304,696	\$819,706	\$361,437
State of NJ	\$2,745,357	\$978,874	\$1,505,734	\$1,900,665	\$1,573,506
Local Govt.	\$1,089,783	\$428,124	\$490,880	\$1,039,747	\$353,663
TOTAL	\$26,748,809	\$33,112,210	\$27,223,575	\$30,996,000	\$30,055,813

The New Jersey Small Business Development Center was established by Congress in 1978 as one of the first national SBDC pilot projects resulting from the passage of Public Law 96-302. At present the NJSBDC network is composed of the headquarters located at Rutgers Business School - Newark and New Brunswick, and 11, full-service, regional centers, and an additional 27 affiliate (or satellite) offices located throughout the state. Regional centers are hosted by and affiliated with a two- and four-year college and university business programs with a major footprint for comprehensive Business assistance and outreach.

The Small Business Administration funding to the Newark Campus accounted for 38% of federal funds awarded and 25% of total awards in FY14.

THE STORIES AND THE PEOPLE BEHIND THE NUMBERS

Awards in FY14 totaled \$26,748,809 (based on awards processed in the Research Office), a 19% drop from the prior fiscal year. There are several explanations for the reduction, including award timing, federal government sequestration, the lack of a substantial foundation award as in FY13.

Most noticeably was the fall in awards from the National Institutes of Health and the National Science Foundation.

The Center for Molecular and Behavioral Neuroscience this year earned the highest total in awards received, followed by the Department of Earth and Environmental Sciences.

The NJ Small Business Development Centers benefitted from over three and a half million dollars in Superstorm Sandy relief funds to assist in the recovery efforts.

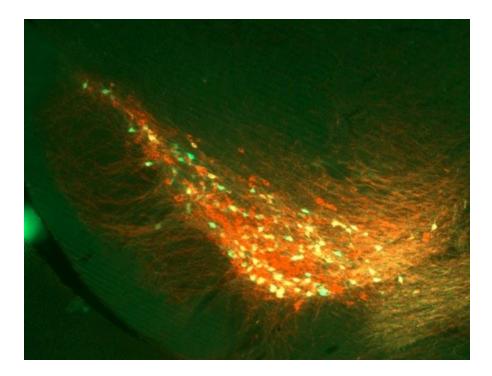
Several of our young faculty were successful in obtaining external funding including Nan Gao in Biological Sciences (NIH and NJ Commission on Cancer Research); Radek Dobrowolski in Biological Sciences (American Federation for Aging Research, Alzheimer's Association); Michael Cole in CMBN (NIH); Michael Pavanello in Chemistry (American Chemical Society); William Graves in Psychology (NIH).

The former Vice Chancellor for Research, Alexander Gates, returned to his faculty position as of January 1, 2014.



The Life Sciences Center (225 University Ave) provides extensive, cutting-edge research laboratories dedicated to undergraduates and graduates. The building is also home to the cell biology wing of the department, which serves as the driving force behind the program in cellular biodynamics.

CONGRATULATIONS RUTGERS UNIVERSITY—NEWARK FY14



The figure shows the coexpression of dopamine (red) and green fluorescent protein (GFP) - green) in dopaminergic neurons in the midbrain of a mouse genetically engineered to express GFP in all cells in the body (and brain!) that normally express tyrosine hydroxylase, the rate limiting enzyme for the synthesis of dopamine.

The James Tepper group in CMBN studies the normal functions of the basal ganglia subsume cognition, emotion, learning and memory and sensorimotor integration, in addition to control of voluntary movement. Disorders of the basal ganglia include Parkinson's disease, Huntington's disease, schizophrenia and other dysfunctions of thought and emotion, as well as impairments of voluntary movement. Tepper's research is supported by the National Institutes of Health.



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