

RUTGERS

Research Office | Newark



ANNUAL REPORT FY16

July 1, 2015 - June 30, 2016



Nancy Cantor
Chancellor

Rutgers University – Newark



Jerome D. Williams
Provost

Rutgers University – Newark



Nabil Adam
Vice Chancellor for Research & Collaborations

Rutgers University – Newark

AWARDS IN FY15 AND FY16 BY SOURCE OF FUNDING

Award Type	FY15		FY16		FY16 vs. FY15 % Change
Federal Awards	\$18,947,382	71%	\$16,001,355	64%	-16%
State of New Jersey	\$2,323,163	9%	\$2,372,611	9%	2%
Foundations and others	\$4,571,774	17%	\$5,637,718	22%	23%
Corporations	\$640,456	2%	\$1,048,633	4%	64%
RU Internal	\$65,000	>1%	\$80,000	>1%	23%
Total	\$26,547,775	100%	\$25,140,316	100%	-5%

NUMBER OF AWARDS IN FY15 AND FY16 BY SOURCE OF FUNDING

Awards			
Fund Source	FY2015	FY2016	% Change
Federal Awards	65	64	-1.5%
State of New Jersey	18	26	+44.4%
Foundations and others	80	76	-5.0%
Corporations	12	21	+75.0%
RU Internal	2	2	0%
Grand Total	177	189	+6.8

NUMBER OF SUBMISSIONS IN FY 15 AND FY16 BY SOURCE OF FUNDING

Proposals submitted			
Fund Source	FY2015	FY2016	% Change
Federal	131	151	+15.3%
State of New Jersey	24	31	+29.9%
Foundations and others	99	102	+3.0%
Corporations	9	26	+188.9%
RU Internal	2	2	0%
Grand Total	265	312	+17.7

FUNDING

During FY 2016, we received a total of 189 awards, for a total of \$25,140,316. In addition, 312 proposals were submitted over the course of the year, requesting \$46,534,843 in the initial year of funding. This amount does not include the amounts requested for subsequent years of multi-year proposals.

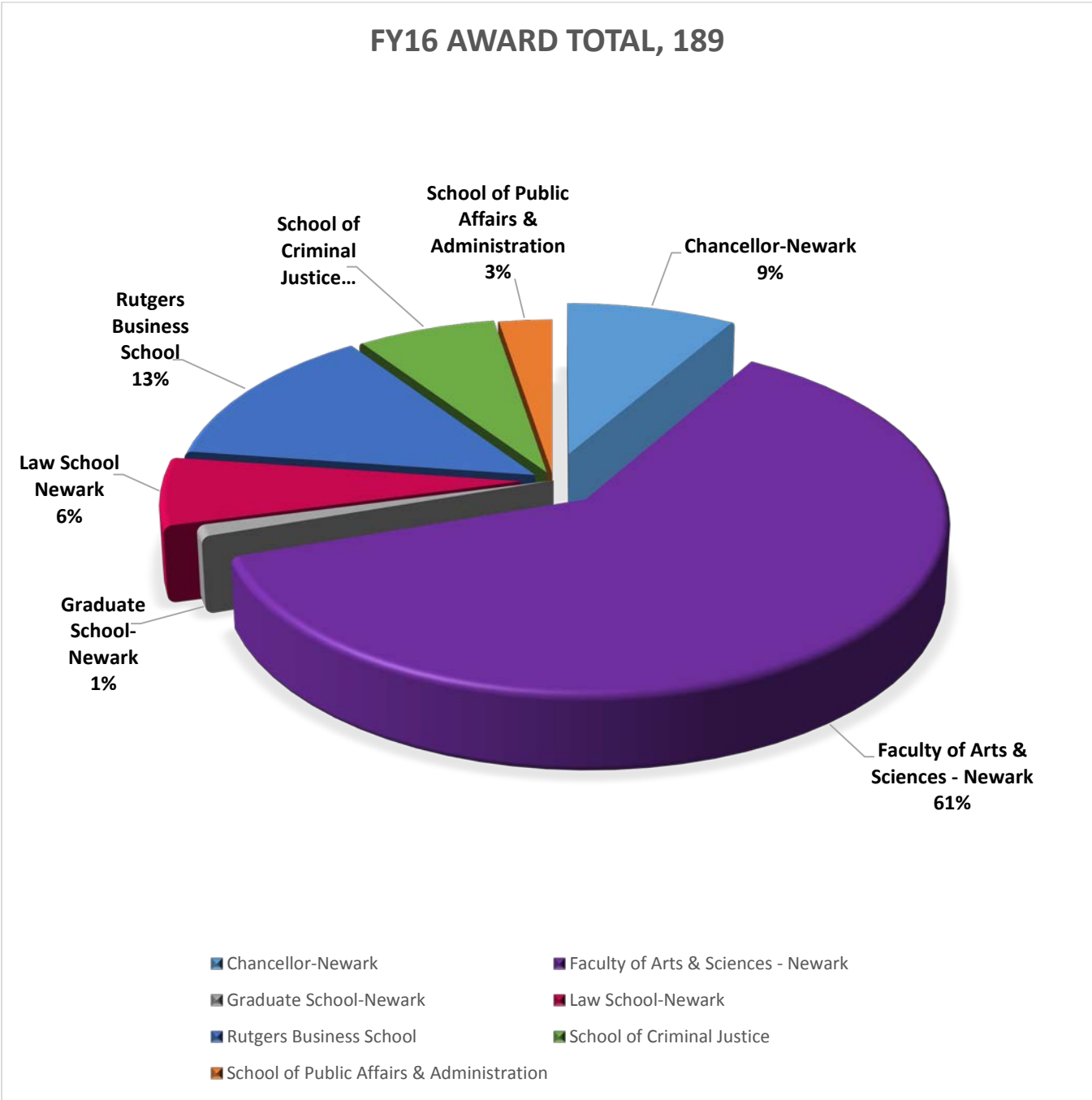
There was a 6.8% increase in the number of awards over the prior year, FY 2015 (189 vs. 177) and a dramatic 17.7% increase in the number of proposals submitted (312 vs 265). In FY 2016, we were able to increase the number of corporate contracts by 75% and funding from the State of New Jersey by 44%, but the result may have contributed to the significant decrease (-18%) in indirect cost recovery for the year, while direct costs declined only slightly (-2.6%) since these funders typically pay a lower indirect cost rate.

School/Department	PI Name	Project Title	Sponsor	Total One Year Award
RBS/GSM-Small Business Development Center	Hopper, Brenda	NJ Small Business Development Center	Small Business Administration	\$3,080,073
Cornwall Center for Metropolitan Studies	Sills, Kimaada	Newark City of Learning Collaborative	Foundation for Newark's Future	\$1,500,000
FASN/Biological Sciences	Tran, Tracy	Plexin-A4 Signaling Regulates Diverse Cellular Morphologies in the Developing Nervous System	National Science Foundation	\$674,894
Graduate School-Newark	Komisaruk, Barry	Minority Biomedical Research Support (MBRS) Program at Rutgers-Newark	DHHS-PHS-NIH-NIGMS	\$613,996
FASN/Center for Molecular and Behavioral Neuroscience	Tepper, James	Functional Striatal Microcircuits in vivo and in vitro	DHHS-PHS-NIH-NINDS	\$535,817
RBS/Graduate School of Management	Hopper, Brenda	New Jersey Small Business Development Centers	SNJ-DS-Business Action Center	\$500,000
FASN/Mathematics & Computer Science	Shafto, Patrick	CHS: Small: Using virtual technology for the dynamic, real-time optimization of human visual perception	National Science Foundation	\$499,441
Academic Foundations Center	Rosario, Ivette	Excite and Ignite: Preparing the Next Generation of Teachers (NextGen)	US Department of Education	\$484,497
FASN/Center for Molecular and Behavioral Neuroscience	Zaborszky, Laszlo	Afferent Regulation of Cholinergic Forebrain Neurons	DHHS-PHS-NIH-NINDS	\$473,007
School of Criminal Justice	Miller, Jody	Collaborative Research: Broadening Participation and Perspectives In The Study of Culture and Justice.	National Science Foundation	\$466,039
FASN/Biological Sciences	Weber, Gregory	Interplay of Physical Forces, Cell Cohesion and Cytoskeleton during Morphogenesis	DHHS-PHS-NIH-NICHHD	\$464,254

School/Department	PI Name	Project Title	Sponsor	Total One Year Award
Chancellor-Newark	Aponte, Arcelio	Express Newark: A University Community Collaboratory	Prudential Foundation	\$425,000
FASN/Center for Molecular and Behavioral Neuroscience	Pare, Denis	Midline thalamic control of the amygdala	DHHS-PHS-NIH-NIMH	\$387,500
FASN/Center for Molecular and Behavioral Neuroscience	Pare, Denis	Functional organization of the bed nucleus of the stria terminalis	DHHS-PHS-NIH-NIMH	\$387,500
FASN/Center for Molecular and Behavioral Neuroscience	Krekelberg, Bart	Eye Movements and Visual Perception	DHHS-PHS-NIH-NEI	\$387,500
FASN/Biological Sciences	Friedman, Wilma	Role of the p75 neurotrophin receptor in the developing cerebellum	DHHS-PHS-NIH-NINDS	\$387,500
FASN/Chemistry	Jordan, Frank	Mechanistic Issues Related to Aging on Human 2-Oxoglutarate Dehydrogenase Complex	DHHS-PHS-NIH-NIGMS	\$369,360
FASN/Chemistry	Galoppini, Elena	Model Dyes for Study of Electron Transfer Processes at Metal Oxide Semiconductor Interfaces	US Department of Energy	\$360,000
FASN/Earth & Environmental Sciences	Gates, Alexander	REU Site: Dynamic Urban Environmental Systems and Sustainability in Newark, NJ	National Science Foundation	\$339,532
FASN/Biological Sciences	Maurel, Patrice	Nectin-like cell adhesion molecules and the mechanism of myelination	DHHS-PHS-NIH-NINDS	\$339,063
FASN/Center for Molecular and Behavioral Neuroscience	Krekelberg, Bart	MRI Compatible EEG recording and transcranial current stimulation for Brain Research	DOD-DOA-Army Research Office	\$298,293
FASN/Psychology	Bonawitz, Elizabeth	Eager Maker: The Origins of Making: A Data Science Approach to Investigating Cognitive and Affective Basis of Learning Through Constructing	National Science Foundation	\$297,772

School/Department	PI Name	Project Title	Sponsor	Total One Year Award
Chancellor-Newark	Aponte, Arcelio	Express Newark Initiative	PSE&G Foundation	\$250,000
Chancellor-Newark	Aponte, Arcelio	Express Newark Arts & Culture	Bank of America Charitable Foundation, Inc.	\$250,000
FASN/Center for Molecular and Behavioral Neuroscience	Gluck, Mark	Neurocognitive Studies of Sleep and the Generalization of Emotional Learning and Threat Detection	National Science Foundation	\$248,198
RBS/Graduate School of Management	Cole, Kimberley	NEA: FBLA Program Income	Various Associations/Other	\$239,474
Academic Foundations Center	Walker-Mccall, Deborah	Student Support Services - 1586	US Department of Education	\$231,103
Academic Foundations Center	Walker-Mccall, Deborah	Talent Search Program (Irvington and Orange)	US Department of Education	\$230,000
Academic Foundations Center	Walker-Mccall, Deborah	Talent Search (East Orange) (Jakyrra Tyson)	US Department of Education	\$230,000
FASN/Chemistry	Pavanello, Michele	Electron-Rich Oxide Surfaces	National Science Foundation	\$225,000
FASN/Center for Molecular and Behavioral Neuroscience	Polack, Pierre-Oliver	Modulation of Visual Cortical Processing by Attention	Whitehall Foundation, Inc.	\$225,000
FASN/Center for Molecular and Behavioral Neuroscience	Cole, Michael	Network Mechanisms of Flexible Cognitive Control	DHHS-PHS-NIH-NIMH	\$224,099
FASN/Center for Molecular and Behavioral Neuroscience	Krekelberg, Bart	MRI: Observing and modulating brain activity	National Science Foundation	\$208,805
RBS/Organization Management	Abruzzo, James	Transforming Urban Communities through Effective Leadership	Prudential Foundation	\$200,000
RBS/Management Science & Information Systems	Xiong, Hui	Encrypted Network Classification and Service Quality Scoring	FutureWei Technologies, Inc.	\$200,000

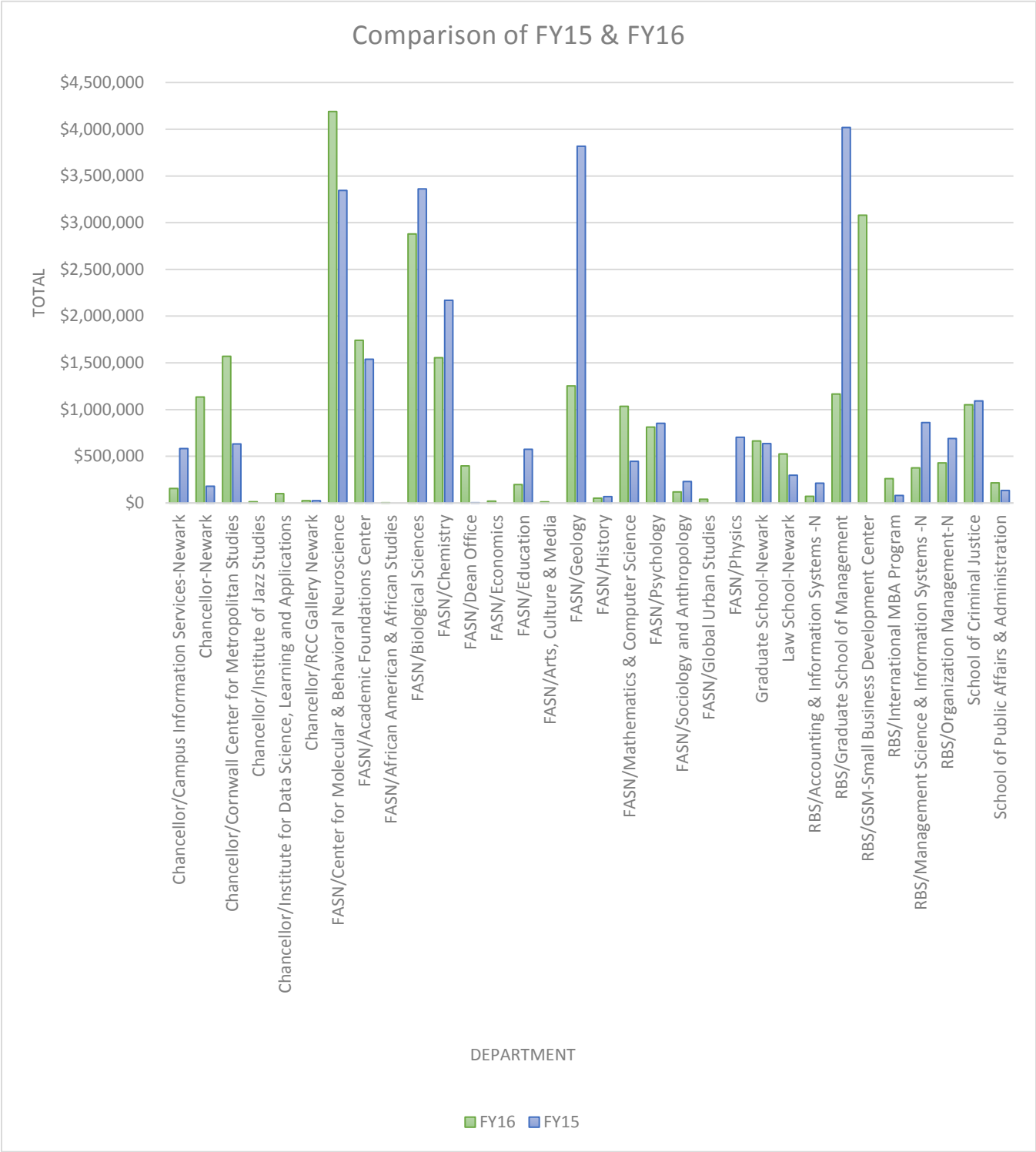
FY16 AWARDS BY SCHOOL & DEPARTMENT



FY16 AWARDS BY DEPARTMENTAL UNIT FUNDED/(ACTIVE)

DEPARTMENT / SCHOOL NAME	BUDGET PERIOD TOTAL COST
Chancellor-Newark	
Campus Information Services-Newark	\$ 155,500
Chancellor-Newark	\$ 1,134,225
Cornwall Center for Metropolitan Studies	\$ 1,570,000
Institute for Data Science, Learning and Applications	\$ 100,000
Institute of Jazz Studies	\$ 13,287
RCC Gallery Newark	\$ 24,701
Faculty of Arts & Sciences - Newark	
Academic Foundations Center	\$ 1,741,279
African American & African Studies	\$ 1,500
Biological Sciences	\$ 2,879,461
Chemistry	\$ 1,554,822
Center for Molecular & Behavioral Neuroscience	\$ 4,189,752
Faculty of Arts & Sciences Dean's Office	\$ 396,977
Economics	\$ 20,000
Urban Education	\$ 197,250
Fine Arts	\$ 12,000
Geology	\$ 1,253,119
History	\$ 51,557
Mathematics & Computer Science	\$ 1,034,672
Psychology	\$ 812,358
Sociology and Anthropology	\$ 118,557
Global Urban Studies	\$ 40,000
Graduate School-Newark	\$ 663,996
Law School-Newark	\$ 525,000
Rutgers Business School	
Accounting & Information Systems -N	\$ 71,429
Graduate School of Management	\$ 1,166,250
GSM-Small Business Development Center	\$ 3,080,073
International MBA Program	\$ 260,753
Management Science & Information Systems -N	\$ 376,060
Organization Management-N	\$ 429,000
School of Criminal Justice	\$ 1,051,300
School of Public Affairs & Administration	\$ 215,438

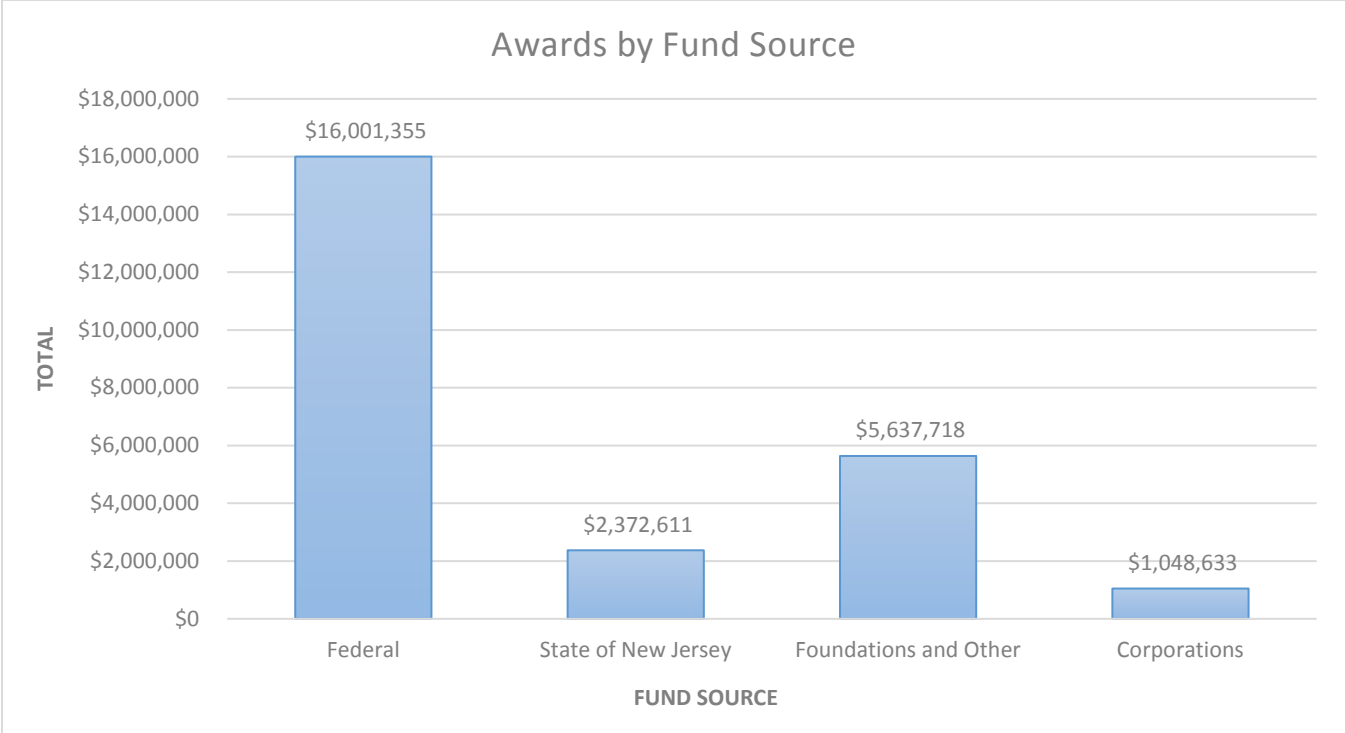
COMPARISON BETWEEN FY15 AND FY16



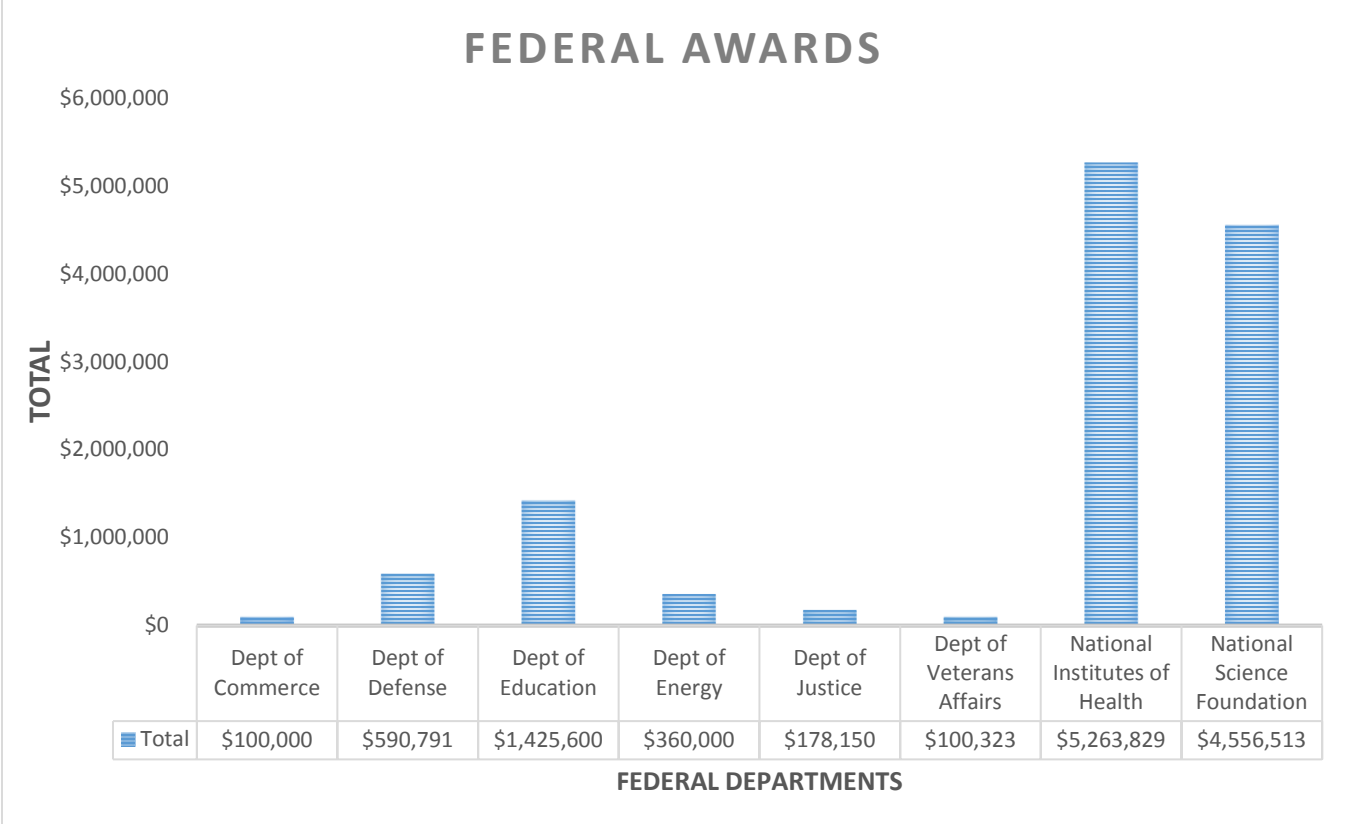
FY16 AWARDS BY SPONSOR UNIT FUNDED/(ACTIVE)

SPONSORS	BUDGET PERIOD TOTAL COST
Federal	
Department of Agriculture	\$ 15,000
Department of Commerce	\$ 100,000
Department of Defense	\$ 590,791
Department of Education	\$ 1,425,600
Department of Energy	\$ 360,000
Department of Justice	\$ 178,150
Department of the Interior	\$ 15,000
Department of Veterans Affairs	\$ 100,323
National Institutes of Health	\$ 5,263,829
National Science Foundation	\$ 4,556,513
Other Federal	\$ 3,396,149
State of New Jersey	
Department of Agriculture	\$ 32,628
Department of Children and Families	\$ 90,000
Department of Education	\$ 146,500
Department of Health	\$ 960,500
Department of Law and Public Safety	\$ 80,000
Department of State	\$ 547,988
County, Local & Other NJ Agencies	\$ 514,995
Foundations and Other	
Associations and Foundations	\$ 4,720,533
Institutions of Higher Education	\$ 917,185
Corporations	
Corporate Contracts	\$ 1,048,633
RU Internal	
RU Internal	\$ 80,000
Grand Total	\$ 25,140,316

FY16 AWARDS BY FUND SOURCE (ACTIVE)



FY16 DIRECT FEDERAL AWARDS (ACTIVE)
(WITH TOTAL AWARDS \$20,000 OR MORE)



FY16 PENDING PROPOSALS > \$1 MILLION IN TOTAL PROJECT COSTS

School/Department	PI Name	Project Title	Sponsor	Total Request
FASN/Center for Molecular and Behavioral Neuroscience	Cole, Michael	Cognitive and Brain Network Dynamics in Aging	DHHS-PHS-NIH-NIA	\$3,693,079
FASN/Psychology	Graves, William	Identifying critical neural systems for typical and impaired reading	DHHS-PHS-NIH	\$3,297,155
FASN/Center for Molecular and Behavioral Neuroscience	Gluck, Mark	Pathways to Brain Health for African Americans: A Community-Based Participatory Research study	DHHS-PHS-NIH-NIA	\$3,011,581
Cornwall Center for Metropolitan Studies	Anglin, Roland	Newark Achieves	US Department of Education	\$3,000,000
FASN/Urban Education	Powell, Arthur	Teacher Pathways to Productive Mathematical Discourse: Classroom Integration of Dynamic Mathematics and Online Collaboration	National Science Foundation	\$2,381,034
FASN/Center for Molecular and Behavioral Neuroscience	Gluck, Mark	Reducing Cognitive Health Disparities in Older African Americans Through Community Based Participatory Research	DHHS-PHS-NIH	\$2,357,659
FASN/Center for Molecular and Behavioral Neuroscience	Cole, Michael	Brain Network Mechanisms of Instructed Learning	DHHS-PHS-NIH-NIMH	\$1,996,429
FASN/Center for Molecular and Behavioral Neuroscience	Cole, Michael	Brain Network Mechanisms of Aging-Related Cognitive Decline	DHHS-PHS-NIH	\$1,949,835
FASN/Center for Molecular and Behavioral Neuroscience	Krekelberg, Bart	Coordinated Neural Activity Underlying Visual Cognition	DHHS-PHS-NIH	\$1,937,500
FASN/Center for Molecular and Behavioral Neuroscience	Pare, Denis	Midline thalamic control of the amygdala	DHHS-PHS-NIH-NIMH	\$1,937,500

School/Department	PI Name	Project Title	Sponsor	Total Request
FASN/Center for Molecular and Behavioral Neuroscience	Mena-Segovia, Juan	Cholinergic brainstem signaling in striatal circuits	DHHS-PHS-NIH	\$1,937,500
FASN/Center for Molecular and Behavioral Neuroscience	Pare, Denis	Beyond Conditioned Fear Encoding of Stimulus Properties and Behaviors by Amygdala Neurons	DHHS-PHS-NIH	\$1,937,500
FASN/Biological Sciences	Dobrowolski , Radoslaw	Deregulation of Lysosomal Signaling in Alzheimer's Disease	DHHS-PHS-NIH	\$1,937,500
FASN/Biological Sciences	Dobrowolski , Radoslaw	Endolysosomal Trafficking and Signaling in Alzheimer's Disease	DHHS-PHS-NIH	\$1,937,500
FASN/Biological Sciences	Tran, Tracy	Semaphorin Signaling Controls Neuronal Dendritic Morphogenesis and Behavior	DHHS-PHS-NIH	\$1,937,500
FASN/Psychology	Boxer, Paul	Treating PTSD in the Juvenile Justice Population	DHHS-PHS-NIH	\$1,937,500
FASN/Center for Molecular and Behavioral Neuroscience	Cole, Michael	Network Mechanisms of Flexible Cognitive Control	DHHS-PHS-NIH-NIMH	\$1,937,480
FASN/Center for Molecular and Behavioral Neuroscience	Koos, Tibor	Functional analysis of the organization of interneuron circuits in the nesotriatum	DHHS-PHS-NIH	\$1,929,250
FASN/Biological Sciences	Friedman, Wilma	Function of the p75 neurotrophin receptor in the developing cerebellum	DHHS-PHS-NIH	\$1,813,500
FASN/Biological Sciences	Maurel, Patrice	Nectin-like cell adhesion molescules and the mechanisms of myelination	DHHS-PHS-NIH	\$1,693,492
FASN/Center for Molecular and Behavioral Neuroscience	Krekelberg, Bart	The Neural Basis of Neuromodulation by Transcranial Current Stimulation	DHHS-PHS-NIH	\$1,550,000

School/Department	PI Name	Project Title	Sponsor	Total Request
Graduate School-Newark	Farmbry, Kyle	Comprehensive Training on Countering Violent Extremism in the Age of Domestic Terrorism: A Community-Based Approach to Prevention and Preparedness	US Department of Homeland Security	\$1,539,973
FASN/Chemistry	He, Huixin	Scalable Manufacturing of Catalysts Supported on Hierarchically Structured Porous Graphitic Carbon with Controlled Heteroatom Doping	National Science Foundation	\$1,450,248
FASN/Center for Molecular and Behavioral Neuroscience	Headley, Drew	Gamma Oscillations in the Basolateral Amygdala: Mechanisms and Functions	DHHS-PHS-NIH	\$1,327,816
FASN/Psychology	Lobue, Vanessa	Emerging relations between attention and negative affect in the first two years of life	DHHS-PHS-NIH	\$1,216,855
FASN/Mathematics & Computer Science	Shafto, Patrick	Learning about Others: Leveraging Social Reasoning Via Comparison to Improve Math Learning	National Science Foundation	\$1,201,132
FASN/Biological Sciences	Rodriguez, Alexis	Investigating a Tension Sensor Pathway Regulating Epithelial Tissue Fate Specification and Function	National Science Foundation	\$1,192,977

The Rutgers University-Newark (RU-N) Office of Research and Sponsored Programs (ORSP) provides support to faculty, students, and staff across RU-N working to secure external funding for their research projects and academic programs.

How Can We Help?

RU-N ORSP’s staff members are available to meet with you to talk about your research and academic project interests and connect you to various resources designed to help you find funding and collaborative opportunities. We welcome researchers at all levels of expertise, and look forward to talking with you about a specific proposal as well as exploring ideas and possibilities. To arrange an individual meeting, a presentation, or a seminar for small groups, please contact:

Nabil Adam , Vice Chancellor for Research and Collaborations	adam@adam.rutgers.edu	973-353-1537
Letitia Dean , Assistant Director	deanle@ca.rutgers.edu	973-972-0283
Patricia Bender , Grant Specialist	pbender@rutgers.edu	973-353-1539
Jennifer DesJardins , Grant Specialist	jennifer.desjardins@rutgers.edu	973-353-1540
Joe Broderick , Senior Grant Facilitator	joe.broderick@rutgers.edu	973-353-1533
Lisa Condobery , Senior Administrative Assistant	lisaj@rutgers.edu	973-353-1537

You may want to explore some of the **online resources and databases** available to all members of the RU-N community even before meeting with us. These include:

- **grants.gov** lists federal grant funding opportunities (<http://www.grants.gov/>)
- **GrantForward** (<https://www.grantforward.com/>). This site is accessible to all Rutgers personnel through a university-wide subscription and allows investigators to set up individual profiles, save searches, create alerts, and export grant information.
- **Foundation Directory Online** (<https://www.libraries.rutgers.edu/indexes/fconline>) The *Foundation Directory Online (Professional)* provides information on more than 100,000 foundations, corporate giving programs, and grant making public charities in the US. All four databases, as well as the Foundation Center's philanthropy news, nonprofit jobs, RFPs, foundation publications, and nonprofit literature databases, can be searched simultaneously.
- **GradFund** (<http://gradfund.rutgers.edu/>) provides valuable information and resources for graduate students as well as a database of grant opportunities.

Do you have questions about how to interpret institutional or funder policies and regulations?

Please consult the Office of Research and Sponsored Programs website (<http://orsp.rutgers.edu/>) or give us a call. We can help you find the policy and the policy professional best prepared to address your needs.

We welcome your suggestions as we strive to respond fully to your requests, and we remain committed to continuous improvement.

Nabil Adam
 Vice Chancellor for Research and Collaborations
adam@adam.rutgers.edu 973-353-5541