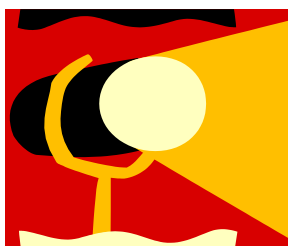


Research News

Vol. 4 No 1



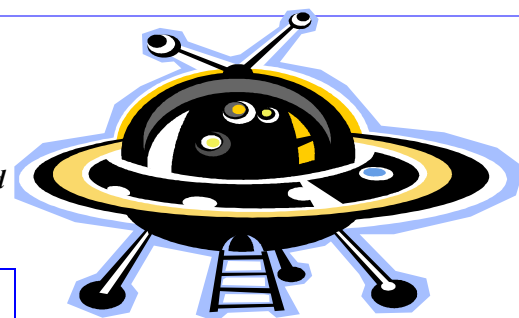
You cannot step into the same river twice. This fragment of a long ago heard quote kept running through my mind like the refrain of a song that refuses to leave even as the new academic year began with all its familiar rituals. Perhaps it was the awareness of the several new initiatives seeking or receiving funding on our campus. You can expect to see some of these initiatives in this and future issues. *Welcome* to all the new faculty and the endless possibilities they bring with them. *There* are several changes already in place or coming soon that researchers need to be aware of when submitting proposals to the National Science Foundation and the National Institutes of Health (see pages 8- 11).



Spotlight on...

THE MRIs HAVE LANDED

Bearing gifts, they were deemed friendly and welcomed by the community. The community offered gifts of their own. The outlook is transformative.



The Newark campus is pleased to be awarded two National Science Foundation Major Research Instrumentation (MRI) grants. The University is also adding its own resources to expand the instrument development.

Daniel Murnick, Professor, FASN-Physics, received \$741,190 to develop two prototype instruments that will perform very high sensitivity carbon 14-C/12-C measurements on a variety of samples. 14-C is a natural label of living systems used for carbon dating and tracing carbon in the atmosphere/biosphere system. Labeling with 14C is especially important in biological and medical research, medical diagnostics and drug discovery and development.

Several major pharmaceutical and other industrial companies are very interested in the outcomes and are indicating their interests by investing in the research and its potential uses. Daniel is very excited to be working on this project. He already holds several patents in his field of research.

Piotr Piotrowiak, Professor, FASN-Chemistry, will use his \$540,000 to develop an ultrafast fluorescence microscope. The instrument will shift from homogeneous systems and experiment with nano- and microstructured materials. Piotr and his team, including Professors Gallopin and He as well as external collaborators, expects that the 1000-fold improvement of the temporal resolution of fluorescence will open new areas of exploration and soon be the standard in this field of research. The unique microscope will allow one to monitor in space and time events as short-lived as one-tenth of a trillionth of a second (for a comparison, light needs one billionth of a second to travel one foot). Such extreme time resolution is necessary in order to study the rapid flow of energy and charges in new materials for solar energy conversion and electronic devices. The award was funded with economic stimulus dollars.

What the reviewers said...

“... **transformative and unique.**”

“**Excellent**”

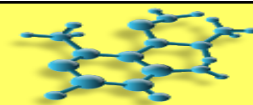
“**Proposal was well written**”

“...**includes transdisciplinary training opportunities for undergraduate, graduate and post-doctoral researchers**”

“...**PIs have experience in working across these levels and offering unique training opportunities to diverse student groups.**”

“... external collaborators from widely disparate sources speaks to the broad appeal of the instrument.”

“**The unique capabilities of the system in terms of combined time and spatial resolution has the potential to impact a wide range of fields.**”



ARRA Report...by the numbers

The Funding Response to Date



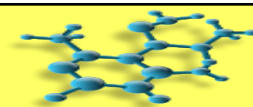
NIH in house proposals	-	2
NSF in house proposals	-	3
NIH Administrative supplement	-	1
NIH Student Summer Research Experience	-	1
Health Resources and Services Administration (HRSA)	-	1

WELCOME

NEW FACULTY

KNIGHT	Candice	CON	
MAUREL	Patrice	FASN	Biological Sciences
CORTES	Jason	FASN	CMLL
DUPREY	Jennifer	FASN	CMLL
ERBER	Pedro Rabelo	FASN	CMLL
KEATING	Kristina	FASN	Earth & Environmental Sciences
SCHWENKENBERG	Julia Meike	FASN	Economics
SOHRAWARDY	Ameer	FASN	English
CHANG	Kornel S.	FASN	History
KARAFIN	Diana Leilani	FASN	Sociology/Anthropology
PETTY	Miriam	FASN	VPA
CHEONG	Foong Soon	RBS	ABEIS
FANG	Vivian W.	RBS	ABEIS
XU	Jing	RBS	ABEIS
ANANTHARAMAN	Divya	RBS	ABEIS
LIAO	Rose	RBS	Finance/Economics
MILLER	Michelle	RBS	Finance/Economics
PAREEK	Ankur	RBS	Finance/Economics

SHELDON	Oliver	RBS	MGB
GAUR	Ajai S.	RBS	MGB
OSORIO	Arturo	RBS	MGB/CUEED - CLUSTER
			Supply Chain
			Mgmt/Marketing
HANDLEY	Sean	RBS	Science
			Supply Chain
			Mgmt/Marketing
NAM	Sung-Joon	RBS	Science
			Supply Chain
			Mgmt/Marketing
QI	Lian	RBS	Science
			Supply Chain
			Mgmt/Marketing
SAWHILL	James W.	RBS	Science
D'APPOLLONIA	Ariane Chebel	SPAA	
HAMDIDUL-LAH	Madinah	SPAA	
JETT	Quintus	SPAA	
MILLER	Lawrence	SPAA	
PANDEY	Sanjay	SPAA	
MILLER	Joel	SCJ	
BALL	Carlos	LAW	
GREEN	Stuart	LAW	
LI	Haipeng	DANA	



POST AWARD CORNER

From the Desk of Guy Narine

**Newark Grants Office (NGO):
Accounting and Reporting Requirements for ARRA Funding**

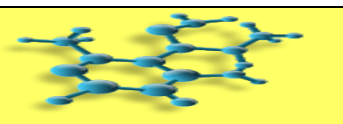
The deadline for Principal Investigators (PIs) and/or their authorized designees to submit the final data for the quarter ended September 30, 2009 in the RU ARRA Web Portal is October 3, 2009. It is imperative that the PIs/authorized designees complete the five (5) data fields quarterly via the Web Portal by the required deadline. The five (5) fields are:

- Percentage of Completion of Project
- Description of Quarterly Activities and Milestones
- Jobs Created
- Jobs Retained
- Job Narrative

The Web portal will be brought down on October 4, 2009 and will no longer be available for data entry. It is very important for each PI and the University to comply with the reporting requirements for these awards since failure by a single PI can adversely affect the University's reputation.

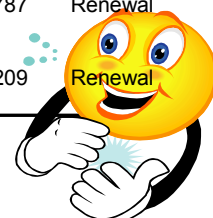
So, I strongly urge each and every recipient of ARRA funding to login to the RU ARRA Web Portal and provide the required information requested. If your award is not showing up on the Web Portal, please contact: dgcal@rci.rutgers.edu immediately.

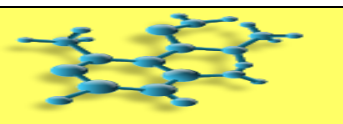




List of Awards for Rutgers Newark (July 2009 – September 2009)

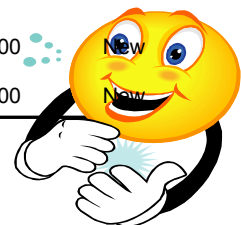
LAST NAME	FIRST NAME	DEPARTMENT	FUNDING AGENCY	TITLE	AMOUNT	TYPE
Abercrombie	Elizabeth	CMBN	NIH- NINDS	Basil Ganglia Function in Huntington's Disease: Genetic Mouse Models	\$337,969	Continuation
Alizadeh	Farid	RBS	NSF	Optimization over positive or sum of square functions with applications to constrained approximation	\$325,000	New
Auffant	Charles	Law School-Newark	NJ State Bar Fdn.	Youth Advocacy Project at Covenant House	\$38,500	Renewal
Bell	Anonda	Robeson Art Gallery	NJ State Council on the Arts	Paul Robeson Gallery NJSCA Education Special Initiative FY 2009	\$9,924	Renewal
Bell	Anonda	Robeson Art Gallery	NJ State Council on the Arts	Paul Robeson Gallery NJSCA General Program Support FY ' 2009	\$18,079	Renewal
Bush-Baskette	Stephanie	Cornwall Center	Nicholson Fdn.	Research Support for the New Jersey Attorney General's Reentry Coordinating Council	\$5,000	New
Buzsaki	Gyorgy	CMBN	NSF	Collaborative Research: Effects of Non-Uniform Extracellular Potential on Neuronal Excitability	\$86,997	Continuation
Canty-Barnes	Esther	Law School-Newark	NJ State Bar Fdn.	Special Education Clinic at Rutgers School of Law-Newark	\$38,500	Renewal
Cohen	Laura	Law School-Newark	NJ State Bar Fdn.	Rutgers School of Law Newark Street Law Program	\$35,464	Renewal
Delgado	Mauricio	FASN-Psychology	NIH-NIMH	Modulation of human reward circuitry by social factors	\$326,102	New
Delgado	Mauricio	FASN-Psychology	NIH-NIDA	The Influence of Emotion Regulation Strategies on Risky Decision-Making	\$37,648	Continuation
Delgado	Mauricio	FASN-Psychology	NIH-NIDA	Neural mechanisms of avoidance learning and active coping via emotion regulation	\$343,265	New
Dubin	Jon	Law School-Newark	Victoria Fdn.	Rutgers School of Law-Newark Community Law Clinic	\$20,000	New
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	Continuation
Gates	Alexander	FASN-Earth and Environmental Sciences	EXXON Mobil Fdn.	Geoscience Scholars Program in Newark, NJ	\$10,000	Continuation
Gluck	Mark	CMBN	NIH-NINDS	ARRA:Feedback Learning and L-Dopa in Parkinson's Disease	\$23,175	Supplement
Gluck	Mark	CMBN	NSF	Interdisciplinary Study of the Striatum in Human Learning and Decision Making	\$15,000	Supplement
Gluck	Mark	CMBN	Novartis Pharmaceutical Corp.	African-American Alzheimer's Disease Health Literacy and Prevention Program	\$46,000	New
He	Huixin	FASN-Chemistry	NSF	Novel Self Assembly for Efficient and Safe siRNA Delivery	\$300,000	New
Hill	Diane	OCCR	Prudential Fdn.	RU Ready For Public Service	\$7,500	New
Holzemer	William	College of Nursing	RWJ University Hospital	College of Nursing and Robert Wood Johnson University Hospital Collaboration	\$26,787	Renewal
Holzemer	William	College of Nursing	Centra State Health System	College of Nursing and the Centra State Medical Center Collaboration	\$49,209	Renewal

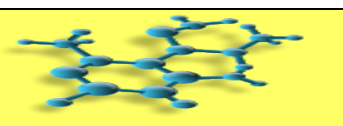




List of Awards for Rutgers Newark (July 2009 – September 2009)

LAST NAME	FIRST NAME	DEPARTMENT	FUNDING AGENCY	TITLE	AMOUNT	TYPE
Holzer	Marc	SPAA	Sloan Fdn.	Sustainable Public Performance Measurement & Reporting Network	\$450,306	New
Hopper	Brenda	RBS/SBDC	US Small Business Admin.	SBDC Portable Assistance Project	\$100,000	New
Jordan	Frank	FASN-Chemistry	U.S.-Israel Bina-tional Science Fdn.	Glyoxylate Carboglycase, an Atypical Thiamin Di-phosphate-Dependent Enzyme	\$15,300	Continuation
Krekelberg	Bart	CMBN	NIH-NEI	ARRA: Eye Movements and Visual Perception	\$196,605	Supplement
Krekelberg	Bart	CMBN	Albert Einstein Col-lege of Medicine	Adaptation to Visual Motion	\$38,625	Continuation
Kustka	Adam	FASN-Earth and Envi-ronmental Sciences	NSF	Collaborative Research: A Matter of Life or Death? Assessing the physiological roles of PCD-related genes to stress adaptation in diatoms	\$68,591	New
Kustka	Adam	FASN-Earth and Envi-ronmental Sciences	NSF	ARRA: Collaborative Research: Modified Circum-polar Deep Water Intrusions as an Iron Source to the Summer Ross Sea Ecosystem	\$837,893	New
Lev	Elise	College of Nursing	NIH	Efficacy of Interventions to Promote Research Careers	\$347,625	Continuation
Mandelbaum	Randi	Law School-Newark	NJ State Bar Fdn.	Child Advocacy Center: Aging Out Project	\$30,000	Renewal
Mandelbaum	Randi	Law School-Newark	NJ State Bar Fdn.	Child Advocacy Center	\$46,000	Renewal
Melamed	Benjamin	RBS-SCMMS	National Collegiate Inventors and Inno-vators Alliance	Enhancing Entrepreneurship Educational and training via the Rutgers Entrepreneurship Lab	\$10,000	New
Morrell	Joan	CMBN	NIH-NIDA	ARRA:Maternal Rat Preference for Pups or Co-caine	\$231,750	Renewal
Mosher	Lee	FASN-Mathematics & Computer Science	NSF	Geometry of Mapping Class Groups and Outer Automorphism Groups	\$115,597	Continuation
Murnick	Daniel	FASN-Physics	NSF	Development of Carbon 14 Analyzer	\$741,190	New
Myers	Catherine	FASN-Psychology	NIH-NIAAA	Computational model of hippocampal-amygdala interaction: Implications for PTSD	\$200,612	New
Ntarlagiannis	Dimitris	FASN-Earth and Envi-ronmental Sciences	US Dept. of Energy	Quantifying Microbe-Mineral Interactions Leading to IP Signals: Implications for Monitoring Bioreme-diation.	\$12,569	New
Ntarlagiannis	Dimitris	FASN-Earth and Envi-ronmental Sciences	American Chemical Society	Using geo-electrical methods as a monitoring aid for Microbial Enhanced Oil Recovery	\$100,000	New
ogilvie	dt	RBS-MGB	Panasonic	Panasonic Intern and Research Support	\$10,130	New
ogilvie	dt	RBS	Tyco International Inc.	Scholars Training and Enrichment Program.	\$50,000	Continuation
Pereira	Mariana	CMBN	NIH-NIDA	Cocaine disruption of material motivation: prefer-ence for pups vs. cocaine	\$38,625	New
Piotrowiak	Piotr	FASN-Chemistry	NSF	ARRA: Development of an Ultrafast Fluorescence Microscope Based on Femtosecond Image Ampli-fication	\$540,000	New
Plinio	Alex	RBS	Merck & Co. Inc.	General Support for the Institute for Ethical Lead-ership	\$25,000	New
Plinio	Alex	RBS	MCJ Amelior Fdn.	General Operating Support	\$7,500	New

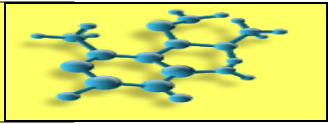




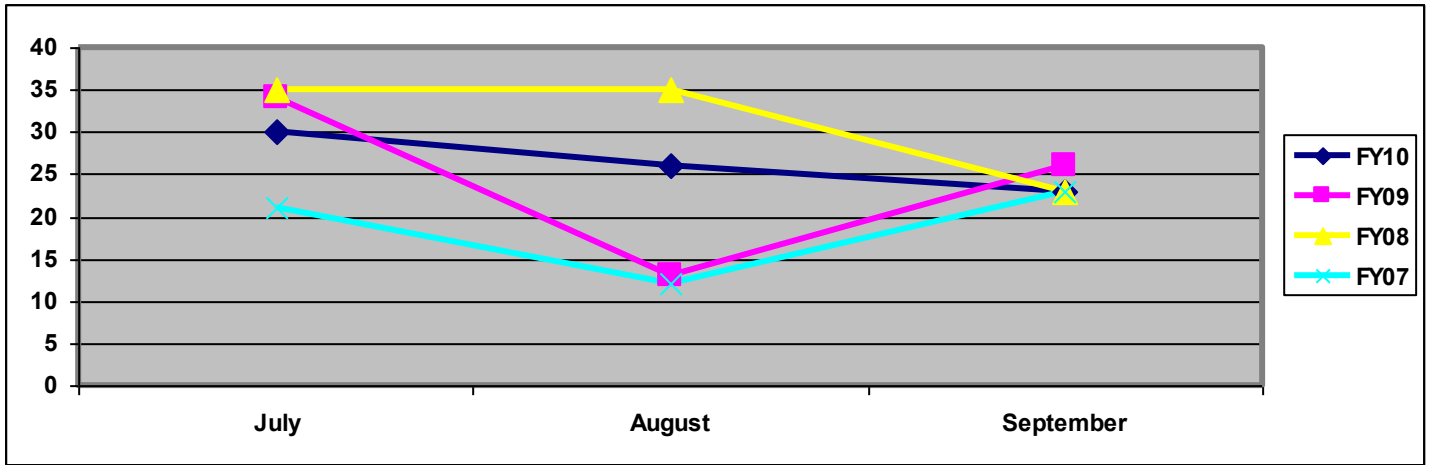
List of Awards for Rutgers Newark (July 2009 – September 2009)

LAST NAME	FIRST NAME	DEPARTMENT	FUNDING AGENCY	TITLE	AMOUNT	TYPE
Plinio	Alex	RBS	Victoria Fdn.	Leaders Common Ground Program and Capacity Building Conference	\$40,000	New
Price	Clement	FASN-History	Verizon Fdn.	The Rise & Development of 21st Century Newark: Oral Histories	\$10,000	New
Price	Clement	FASN-History	Essex County Division of Cultural & Historic Affairs	Symposium on North African Dance	\$21,000	New
Price	Clement	FASN-History	UMDNJ	Newark's Center of Excellence (NCOE) TO Reduce Metabolic Syndrome Disparities	\$22,000	New
Price	Clement	FASN-History	NJ Council on the Humanities	Lincoln Town Hall Meeting	\$3,000	New
Sadovnik	Alan	SPAA	Victoria Fdn.	The Newark Schools Research Collaborative	\$75,000	New
Sadovnik	Alan	SPAA	Newark Charter School Fund	Newark Schools Research Collaborative	\$75,000	New
Schaden	Martin	FASN-Physics	NSF	ARRA: Numerical and Semiclassical Investigation of Casimir Energies and Forces	\$180,000	New
Shafiq	Basit	CIMIC	Department of Homeland Security	Department of Homeland Security Science and Technology Directorate: Workshop on Future Directions in Cyber-physical Systems Security	\$81,054	New
Slater	Lee	FASN-Earth and Environmental Sciences	US Dept. of Energy	A Geophysical Characterization and Monitoring Strategy for Determining Hydrologic Processes in the Hyporheic Corridor at the Hanford 3-00-Area	\$199,845	Continuation
Slater	Lee	FASN-Earth and Environmental Sciences	US Dept. of Energy	Adopting Biophysics Methods in Pursuit of Biogeophysical Research: Advancing the Measurement and Modeling of Electrical Signatures of Microbe-Mineral Transformations Impacting Contaminant Transport	\$28,544	New
Slater	Lee	FASN-Earth and Environmental Sciences	Lawrence Berkeley National Laboratory	Integrating Novel Biophysics Research into the Geophysical effort of the "Evolution of Pore Structure and Flowpath Challenge" of the Lawrence Berkeley Laboratory Science Focus Area	\$40,000	New
Slowinski	Gene	RBS	US Department of Commerce	Rutgers University Technical Assistance Program.	\$100,000	Continuation
Smith-Stephens	Valerie	College of Nursing	Health Resources and Services Administration (HRSA)	ARRA: Scholarships for Disadvantaged Students	\$39,435	Supplement
Sturm	Jacob	FASN-Mathematics & Computer Science	NSF	Canonical Metrics in Kahler Geometry	\$121,924	New
Tepper	James	CMBN	NIH-NINDS	Nigrostriatal dopamine function	\$337,969	Continuation
Tepper	James	CMBN	NIH	Nigrostriatal Dopamine Function	\$98,324	Supplement
Vaidya	Jaideep	CIMIC	NSF	CAREER: Collaborative Optimization with Limited Information Disclosure.	\$90,000	Continuation
Walker-McCall	Deborah	FASN-AFC	The Ready Charitable Fund, Inc.	READY Program	\$349,941	Renewal
Walker-McCall	Deborah	FASN-AFC	US Department of Education	Student Support Services Program	\$252,200	Continuation
Xiong	Hui	RBS-MSIS	RWJ University Hospital	Clustering Algorithm Development for Flow Cytometry Data	\$3,000	New

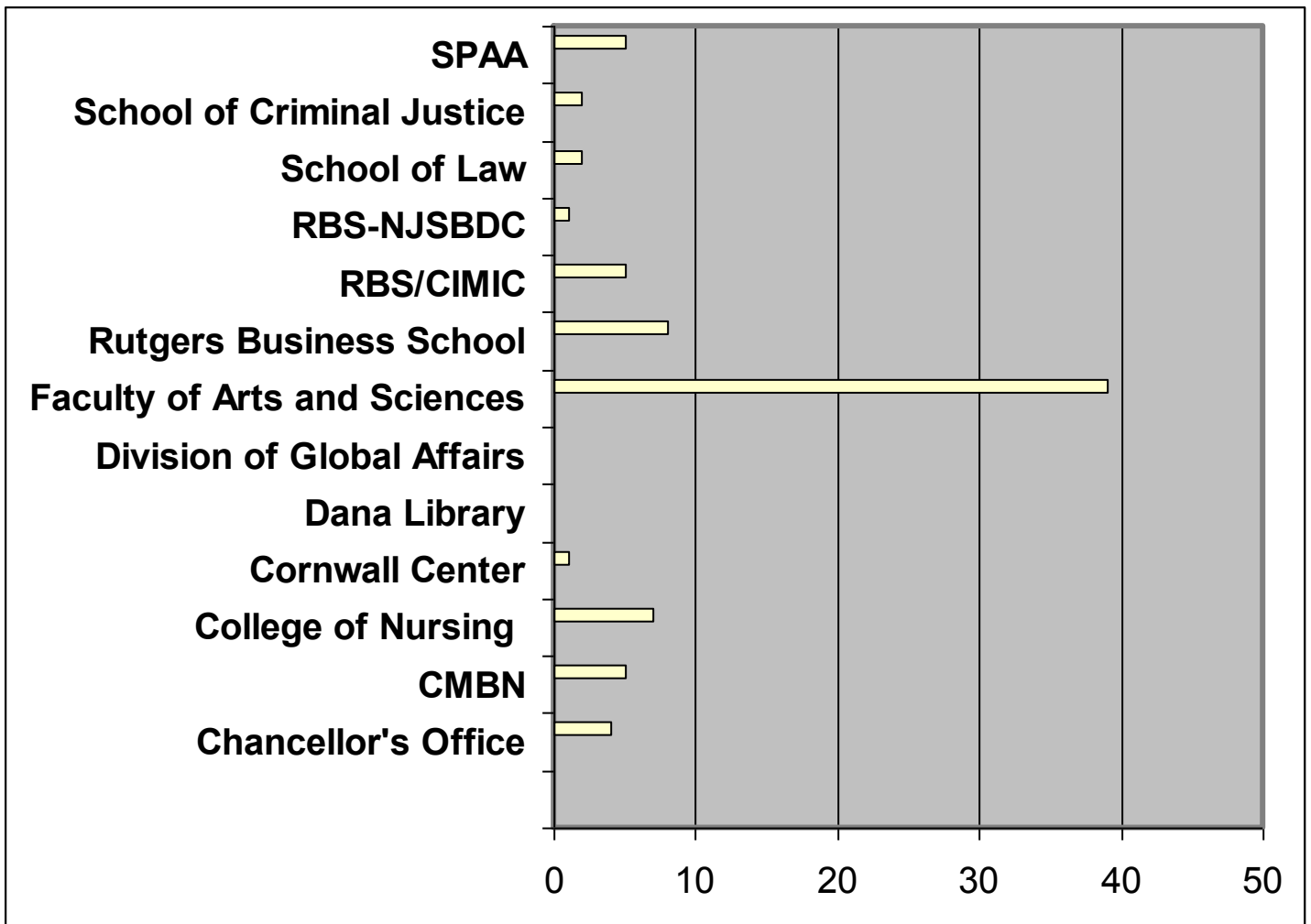


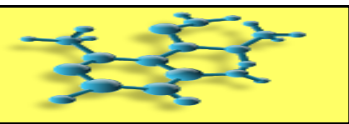


Rutgers-Newark - Number of Submitted Proposals by Month, July 2009-September 2009



Rutgers-Newark- Number of Submitted Proposals by Department, July 2009-September 2009





THE NSF REQUIREMENTS under the America Competes Act Sections 7008 and 7009

1) Postdoctoral Research Fellows

Mentoring

The Director shall require that all grant applications that include funding to support postdoctoral researchers include a description of the mentoring activities that will be provided for such individuals, and shall ensure that this part of the application is evaluated under the Foundation's broader impacts merit review criterion. Mentoring activities may include career counseling, training in preparing grant applications, guidance on ways to improve teaching skills, and training in research ethics.

Reports

The Director shall require that annual reports and the final report for research grants that include funding to support postdoctoral researchers include a description of the mentoring activities provided to such researchers.

Implementation

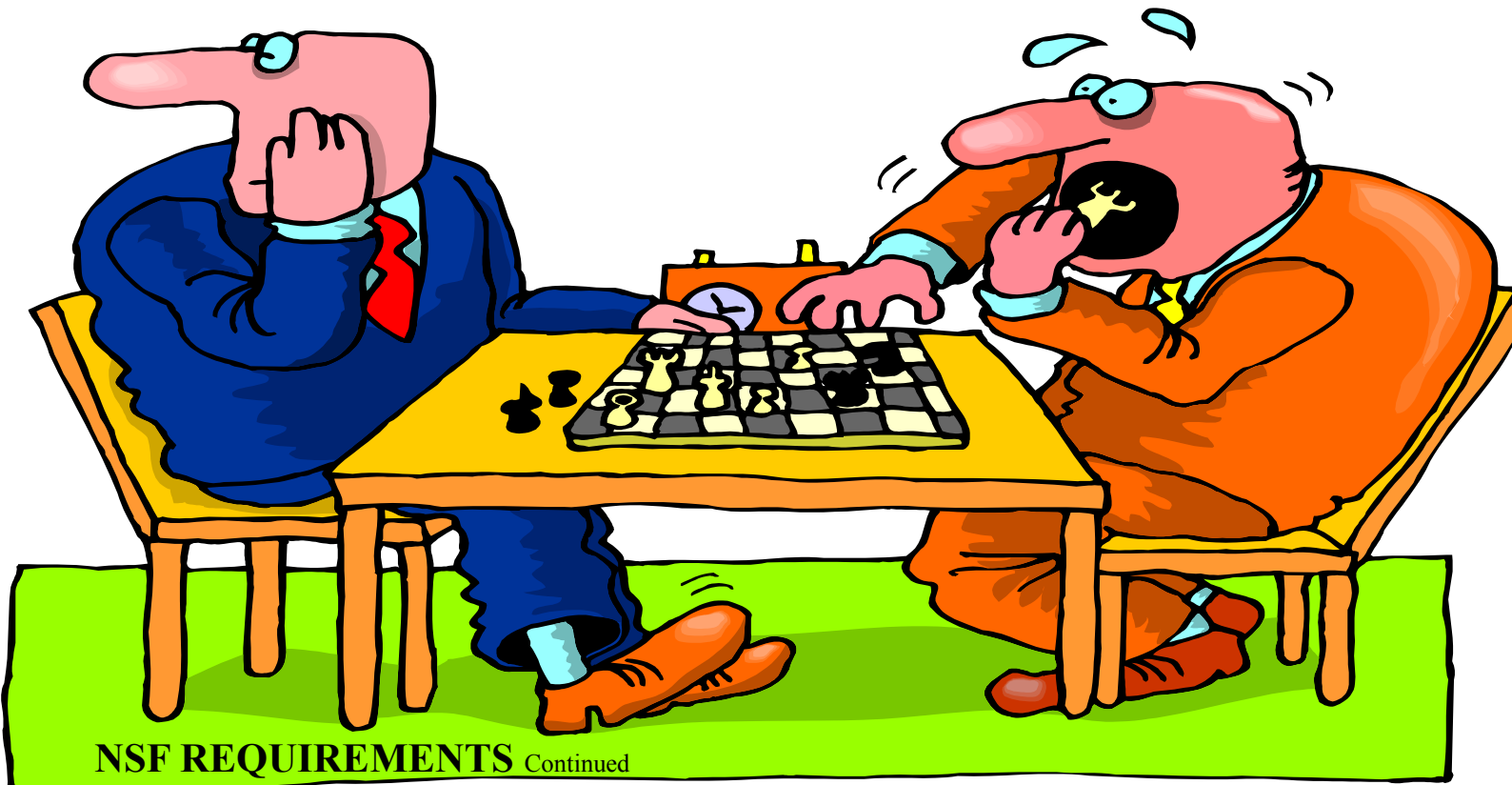
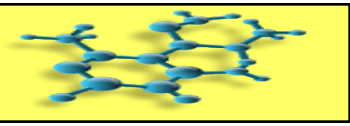
Each proposal that contains postdoctoral researchers must include, as a supplementary document, a description of the mentoring activities that will be provided for such individuals. The mentoring plan must not exceed one page.

This one-page limitation also is applied to proposals with subawards, and, separately submitted collaborative proposals.

The Return without Review section and the Proposal Preparation Check list will emphasize that proposals that do not describe mentoring activities provided to postdoctoral researchers **will be returned without review.**

The FastLane project reporting is being modified to inform PIs of the requirement to report on the mentoring activities.

This includes any postdoctoral researcher not identified in the original proposal submission!



2) Responsible Conduct of Research (RCR)

The Director shall require that each institution that applies for financial assistance from the Foundation for science and engineering research or education describe in its grant proposal a plan to provide appropriate training and oversight in the responsible and ethical conduct of research to undergraduate students, graduate students, and postdoctoral researchers participating in the proposed research project.

NSF is adding the responsible and ethical conduct of research as a Representative Activity in the listing of Broader Impacts Representative Activities.

Beginning January 4, 2010, NSF will require that at the time of proposal submission to NSF, a proposing institution's AOR must certify that the institution has a plan to provide appropriate training and oversight in the responsible and ethical conduct of research to undergraduates, graduate students, and postdoctoral researchers who will be supported by NSF to conduct research.

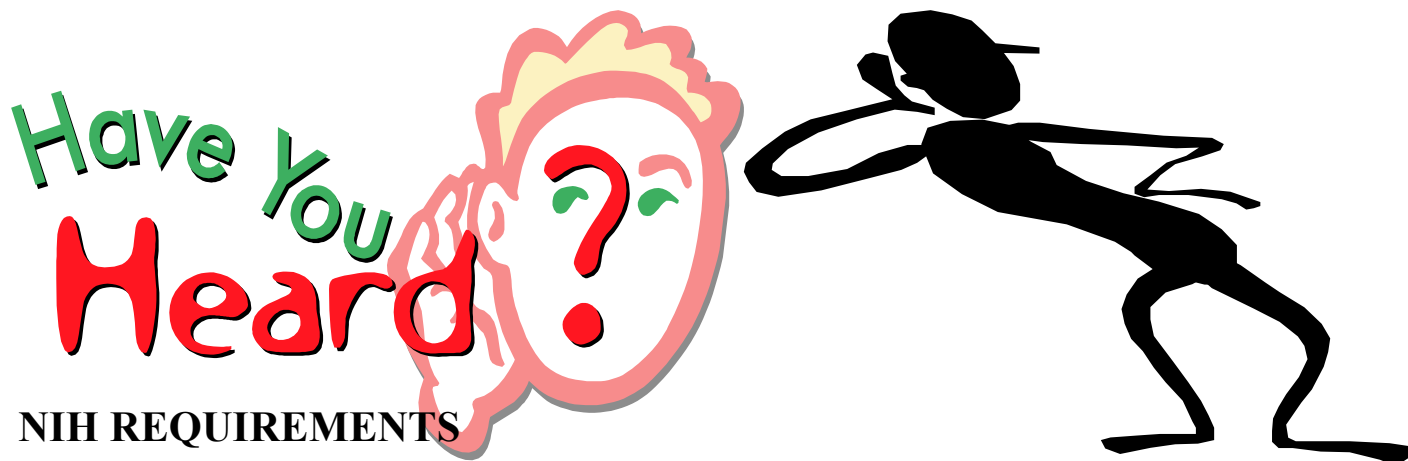
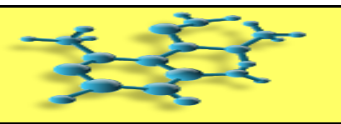
Standard Award Conditions to be modified - institutions must require RCR training.

NSF will support the development of an online digital library containing research findings, pedagogical materials, and promising practices regarding the ethical and responsible conduct of research

THE RUTGERS RESPONSE IN PROGRESS—Keep Tuned

Eileen Kowler, Interim Associate Dean in the graduate school (and professor of psychology) is in charge of developing and implementing the Rutgers RCR program, including an online tutorial and classroom sessions.





NIH REQUIREMENTS

<http://grants.nih.gov/grants/guide/notice-files/NOT-OD-09-139.html>

EFFECTIVE DATE: The newly revised “Continuation Progress Report for a DHHS Public Health Service Grant” (PHS 2590, rev. 06/09) instructions and forms are now available and will be accepted immediately for all progress reports and are **required** for all annual progress reports due on/after October 1, 2009.

New All Personnel Report: Replacement of the Senior/Key Personnel Report with an All Personnel Report (Form Page 7) that collects information on all personnel who participate in the project for at least one person month or more. The All Personnel Report also implements a new NIH requirement that all individuals with a postdoctoral role with one person month or more of measurable effort must have an eRA Commons user ID (see NIH Guide [Notice OD-09-140](#) for details and background on this new requirement).

Discussion

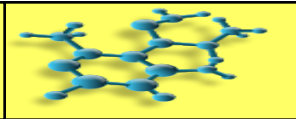
The NIH Reform Act of 2006 (P.L. 109-482) requires the NIH to collect identifying and demographic information and report on those in a postdoctoral role who serve as research assistants or associates on research grants.

NIH maintains a comprehensive data collection on Principal Investigators associated with funded research projects and on students and postdocs supported by the Ruth L. Kirschstein National Research Service Award (NRSA) programs; and conducts comprehensive career outcome studies and analyses on these populations. However little information has been collected on other project staff associated with NIH-funded research grants.

This new data on postdocs will allow an analysis of career outcomes for those individuals and provide data required for the reporting now required under the NIH Reform Act.

Implementation

An eRA Commons postdoctoral role has been established in eRA Commons, and NIH encourages grantee Commons account administrators to work with the individuals in a postdoctoral role at their institution to establish eRA Commons accounts. For individuals supported on a particular research grant, this could include project roles such as Postdoctoral Associate and other similar Postdoctoral positions. Note, this new Commons Postdoctoral role should NOT be used for individuals submitting Individual Fellowships. The PI role will continue to be used for those submissions.



IMPORTANT NSF COMPLIANCE REMINDER

NSF has been requesting that PIs make changes to the biographical format in the already submitted proposal to comply with the requirements. More specifically the compliance most often requested is that **no more than 10 publications** be listed. We are happy that they request the change rather than immediately rejecting the proposal.

E-VERIFY IS FINALLY HERE!!!

After several delays the compliance became effective September 8, 2009.

Currently the requirement applies **only to contracts of \$100,000 plus and 120 days or more duration**. The same will be required for subcontracts over \$3,000.

Institutions are required to confirm employment eligibility of every employee hired on a federal contract and every employee who performs contract services by entering the Form I-9 information into the system.

NSF CHANGES SUMMARISED HERE

http://www.nsf.gov/pubs/policydocs/pappguide/nsf10_1/nsf10_1.pdf

FINAL NSF POLICY CHANGE

Voluntary cost share is unallowable.

MORE NIH CHANGES COMETH

Effective for due dates on or after January 25, 2010 there will be new SF424 forms and changes in the PHS398. **You MUST download the new forms. The changes are due to the new requirements in the peer review process.**

Full details here: <http://grants.nih.gov/grants/guide/notice-files/NOT-OD-09-149.html> and <http://grants.nih.gov/grants/guide/notice-files/NOT-OD-09-150.html>

OF GREAT INTERNAL IMPORTANCE

ALL endorsement forms that are non federal, non state and non city are to be signed by Jennifer Smith, Director, Foundation and Corporate Relations, Newark.

NEW F&A RATES

See here: <http://postaward.rutgers.edu/RA20090825.pdf>
(Look under Reports)

WELCOME BACK GUY

<http://researchoffice.newark.rutgers.edu/>



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Newark, NJ 07102
Phone: 973-353-1537
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