ARRA Proposals and Awards
Summary

	Awards
ASU	$ 932,597
ECSU	$ 500,000
ECU	$ 4,558,979
FSU	$ 1,028,401
NCA&T	$ 3,192,435
NCCU	$ 924,094
NCSU	$ 28,137,280
UNCA	$ 1,100,768
UNCCH	$ 126,572,608
UNCC	$ 8,170,462
UNCG	$ 8,799,191
UNCP	$ 758,487
UNCW	$ 16,781,104
WCU	$ 14,377
WSSU	$ 1,070,764
Total	$ 202,541,547

Stimulus Award Tracking
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Campus	PI	Amount Awarded	Prelim. Notice	Prop.	Award	UNCT Code	Sponsor	Title	Summary	Begin Date	End Date	CFDA#	Federal Award #
ASU	Soule, Peter	$182,953			x	EV	NSF	ARRA - Collaborative Research: Radial Growth Responses Among Naturally-Occurring Western US Conifers Under	This study is designed to examine the potential competitive interactions of two co-occurring and economically important western US conifers growing under natural conditions in a warmer, drier, and increasingly CO2-rich atmosphere. Radial growth responses of	6/1/2009	5/31/2012	47.082	851109
ASU	Cullen, Joseph & White, Patrice	$173,000			x	HE	NC DHHS North Carolina Dept of Health and Human	ARRA -The North Carolina Early Childhood e-Learning Initiative	This proposal describes a project that will develop training curricula for families and professionals involved in early childhood intervention. It consists of a review of evidence-based practices in instructional design, adult learning, and e-learning. It also	9/1/2009	8/31/2011	None	NCAS# 2004600 544
ASU	Emanuel, Ryan	$145,935			x	EV	NSF	ARRA - The Intersection of Vegetation Organization and Watershed Topology: Ecohydrologic Imprints in Runoff Generation	We propose interrelated field and numerical investigations to corroborate the framework and demonstrate its principles of watershed hydrology and vegetation ecophysiology	8/1/2009	7/31/2012	47.050	0838193
ASU	Ownbey, Jeannie	$125,000			X	HE	The Enola Group	ARRA - Early Head Start Servies	Provide Early Head Start Home Visitation Services to up to 30 children from the Burke Co area.	2/1/2010	9/30/2010	93.709	04SA460 0/01 (pass-thru)
ASU	Caton, Daniel / Hawkins, Lee / Pollock, Joseph	$88,810			X	EV	NSF	ARRA: MRI-R2: Acquisition of Equipment in Support of Automatic Telescope Systems at a Research and Teaching	Automatic telescope systems will be developed for use in research and teaching atAppalachian State's Dark Sky Observatory (DSO). The main thrust of this project is to install anew telescope in an unused dome to provide a facility useable by astronomers	12/31/2009	12/31/2011	47.082	0959674

ASU	Sidle, Roy / Thaxton, Chris / Babyak, Carol / Cowan, Ellen	$79,959			X	EV	NSF	ARRA - Assessing the Potential for Downstream Release of Contaminated Sediments Associated with a Recent Fly Ash Spill	This research will evaluate the downstream impacts of the december 08 fly ash spill from the TVA power plant at Kingston, TN.	5/1/2009	4/30/2010	47.050	0929154
ASU	Parrish, William	$65,341			x	ET	NC Small Business and Technology Development Center / SBA	ARRA - Support for Small Business and Technology Development Center	Employees in this banded class provide consultation and program/project administration in a specialized or targeted program area of assignment, supporting the university in achieving stated program goals or objects.	6/15/2009	6/30/2010	17.258 Adult,17.260 DW,17.259 Youth.	None Given this is a Sub w/SBA.
ASU	Carmichael, Sarah & Liutkus, Cynthia	$43,495			X	EV	NSF	ARRA - MRI: Acquisition of a Cathodoluminescence (CL) Microscope System for Earth Science Research and Education at Appalachian State	This grant is for the acquisition of a cold cathode RELION CL instrument with secondary beam regulation, and dedicated computer, camera, and petrographic microscope to be housed in the Optical Petrography Lab in the Geology Department at ASU.	7/15/2009	6/30/2010	47.050	0922942
ASU	Geiger, Patricia	$28,104			X	AC	UNC-GA (NC DHHS)	Pandemic Influenza Healthcare Preparedness Influenza	money is to support the Pandemic Influenza Healthcare Preparedness through June 30, 2010 for flu shots	11/9/2009	6/30/2010	93.889	0002218

ASU	Russell, James / Tiller, Jeff (no money just a blank PO per PC)	$0			X	EV	NC State Energy Office	ARRA: Proposal to Conduct Technical Assistance for Energy and Water Conservation Activities	Department of Technology is one of the national leaders in the areas of research, technical assistance, training, and university instruction in renewable energy and energy efficient technologies.	9/24/2009	5/31/2012	81.086	

$932,597

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ECSU	Charles Hall	$1,149,145	500000		x	x	AC	Natl. Park Service	FY2009 Historic Fund Grant to HBCUs	Restoration and Rehabilitation of Moore Hall Auditorium	6/1/2009	6/1/2012	
		$1,149,145	$500,000										

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ECU	**PI**	**Amount Awarded**	**Prelim. Notice**	**Prop.**	**Award**	**UNCT Code**	**Sponsor**	**Title**	**Summary**	**Begin Date**	**End Date**	**CFDA#**	**Award#**
ECU	Ron Preston	$ 899,524.00			X	K12	NSF	Mathematics and Science Education Noyce Scholars Prgoram	East Carolina University (ECU) proposes using Noyce stipends to recruit and prepare teachers of high school science in ECU Noyce Scholars: Science Majors Teaching Science (SMTS). SMTS recruits science majors (biology, chemistry, geology, and physics) with bachelor's degrees into a Masters of Arts in Teaching (MAT) program that provides teacher licensure in a 12-month, intensive program. The MAT program in science education involves general pedagogy, science pedagogy, school-based science content, field experience	6/1/2009	5/31/2014	47.082	
ECU	Lisa Cambell	$ 598,592.00	X		X	HE	NIH	Prostate Cancer Recovery Enhancement (PROCARE) for African American Men	Surgical advances in radical prostatectomy techniques have made a significant contribution to reducing post-treatment symptoms in men diagnosed with early stage prostate cancer (1). Yet, despite these medical advances, sexual, urinary, and bowel symptoms following radical prostatectomy often persist well beyond the acute treatment and recovery period and affect not only survivors, but also their intimate partners and the intimate relationship. When symptoms persist, reducing symptom distress and increasing quality of life become particularly salient goals. To date, symptom management approaches have traditionally focused on survivors, with little attention to intimate partners. The ultimate goal of this research is to develop more effective ways to help both survivors and partners cope more effectively with the problems and challenges experienced after radical prostatectomy for prostate cancer.	9/30/2009	9/29/2011	93.701	3R01CA122704-03S1
ECU	Saame Raza Shaikh	$ 426,102.00			X		NIH	N-3 PUFA's and antigen presenting cells	N-3 polyunsaturated fatty acids (PUFAs) have potential therapeutic value for the treatment of inflammation associated disorders; however, their targets and mechanisms are poorly understood. This grant proposal aims to test a new model on how n-3 PUFAs modify the function of specific immune cells. Data generated from this proposal will contribute to the development n-3 PUFAs as nutraceuticals.	5/1/2010	4/30/2013	93.701	1R15AT006122-01
ECU	Betty G. Beacham	$ 410,816.00			X	K12	NIH	WellnessCorps	**Purpose:** The purpose of the project is to use Wellness tutors and mentors to work with school age students who are at risk of developing juvenile diabetes**.** Many children in eastern NC are not succeeding in school. There are many factors that contribute to low performance in school. There is an emerging body of research that supports a correlation between student academic performance and	7/1/2009	6/30/2010	93.701	
ECU	Phillip Pekala	$ 358,750.00			X	HE	NIH	Novel Regulatory mechansims in Adipogensis: role of the ES-cell transcrition factor Zfp-206	Adipose tissue plays a critivcal role with respect to the pathology of both diabetes and obesity and has become recognized as a dynamic endocrine-like tissue, synthesizing and secreting proteins responsible for the regualtion of the balance between energy storage and energy expenditure. If we are to identify new diagnostic biomarkers and discover new treatment options, we need to understand the regulation of the differentiation process as well as the maintenance of the differentiated phenotype in this complex tissue.	4/1/2010	3/31/2013	93.701	1R15DK088666-01

ECU	Charles Jeffrey Smith	$ 334,163.00			X	HE	NIH	Role of B. Fragilis Oxygen Stress Response in Infection	Every mucosal surface of the human body is inhabited by bacteria that have developed a commensal relationship with their host. *Bacteroides fragilis* is part of this indigenous, "normal" flora in the colon and the primary goal of this research is to learn how it causes intra-abdominal infections after being translocated from the colon due to disease or trauma. The successful completion of this research	7/18/2009	3/14/2010	93.701	5AI040588-10A1
ECU	David Tulis	$ 228,326.00			X	HE	NIH	NO- independent cGMP regulation of vacular remodeling	Cyclic guanosine 3′,5′-monophosphate (cGMP) serves many beneficial functions in vascular smooth muscle (VSM), yet based on concerns over traditional cGMP signaling ongoing studies in the parent grant are investigating alternate routes for cGMP control in VSM. In a recent in vivo study, several unanticipated findings from two distinct pharmacologic approaches were discovered that warrant further attention and that serve as basis for this supplemental	7/15/2009	6/30/2009	93.701	3RO1HL081720-0352
ECU	Lauren Whetstone	$ 204,229.00			X	HE	Health & Wellness Trust Fund	Evaluation of Eliminating Health Disparities Initiative	To assess and examine the overall effectiveness of projects as they relate to stated goals of the overall initiative.	7/1/2009	*06/30/2012		
ECU	Melani Duffrin	$ 198,563.00			X	K12	NIH	Administrative Supplement FOODMASTER Impacting K-12 Teachers	2009 NIH Administrative Supplement to FOODMASTER award. This is a collaborative proposal with UNC-CH - ECU is the lead institutions. The FoodMASTER initiative is a compilation of programs aimed at using food as a tool to teach basic research, science, and math concepts to K-12 teachers and students. The parent NIH NCRR SEPA FoodMASTER grant is currently in a dissemination phase. Preliminary	10/1/2009	9/30/2011	93.701	
ECU	Sherri Jones	$ 175,595.00			X	HE	NIH	GENETIC BASIS FOR GRAVITY RECEPTOR DYSFUNCTION IN MICE	SUPPLEMENT TO R01DC006443			93.701	
ECU	Richard Ericson	$ 125,000.00		X	**X**	GR/ET	NIST	Recovery Act Measurement Science and Engineering Research Grants	ECU is Subcontractor on Submission by University of Delaware to National Institute of Standards and Technology. This project requests funds (1) to develop risk and game theoretic optimization models to support	**1/1/2010**	**12/31/2012**	11.609	UD Award # 60NAN810D016
ECU	Gary Stainback	$ 107,023.00		X	X	HE	NCDHHS/ OSEP	Develpomental Evaluation Clinic	To provide funds in support of the operation of a development evaluation clinic.	12/1/2009	5/31/2010	84.394	
ECU	Joe Houmard	$ 77,204.00			X	HE	NIH	Lipid metabolism in obesity weight loss and exercise	NIH instigated funding for additional equipment purchase.	1/1/2010	3/31/2010	93.701	3R01DK056112-09S1

ECU	Ann Sperry	$ 71,750.00		X	X	HE	NIH	A Testis Specific Regualtroy Subunit of Protein Phosphatase-1	Mammalian sperm result from a series of carefully orchestrated cellular events that transform a precursor germ cell into a highly specialized haploid gamete that can effectively deliver genomic information to the oocyte at fertilization. Failure at any step in sperm formation can result in dysfunctional sperm with abnormal shape, lack of motility, absence of necessary subcellular structures, or presence of chromosomal abnormalities.	9/30/2009	8/31/2011	93.701	HD058027-01A1
ECU	Ken Wilson	$ 65,741.00			X	OE	US Commerce	NC Broadband in Mapping: Citizen Surveys for Broadband Planning in North Carolina	Project will include preparation and revision of a questionnaire and research design related to Internet access in North Carolina. Study will observe the use of cell phones in comparison with use or non-use of land phone services.	12/1/2009	12/31/2011	11.558	
ECU	Barbara Muller-Borer	$ 43,698.00	X		X	HE	NHLBI(through Duke Univ.)	Mechanisms for Stem Cell Differentiation into Cardiac Myocytes	Understanding the epigenetic process in human mesenchymal stem cells ibecause of their use in clincal trials and the ability to generate them from patients is an important step in developing stem cell therapy.	7/15/2009	*06/30/11	93.701	R01-HL091348
ECU	Joe Houmard	$ 43,375.00			X	HE	NIH	Lipid metabolism in obesity weight loss and exercise	NIH instigated funding for additional equipment purchase.	1/1/2010	3/31/2010	93.701	3R01DK056112-09S1
ECU	Peter Neufer	$ 40,602.00	X		X		NIH						
ECU	Sherri Jones	$ 35,875.00			X	HE	Jackson Lab	NADPH Oxidase Complexes in Mammalian Vestibular Function	Award is subaward to Prime #R01 DC007431-0451	7/17/2009	11/30/2009	93.701	

ECU	David Tulis	$ 34,096.00			X	HE	NIH	NO- independent cGMP regulation of vacular remodeling (summer supplement)	Cyclic guanosine 3´,5´-monophosphate (cGMP) serves many beneficial functions in vascular smooth muscle (VSM), yet based on concerns over traditional cGMP signaling ongoing studies in the parent grant are investigating alternate routes for cGMP control in VSM. In a recent in vivo study, several unanticipated findings from two distinct pharmacologic approaches were discovered that warrant further attention and that serve as basis for this supplemental, comparative effectiveness research (CER)-based summer project. In brief, commonalities between YC-1, a soluble guanylate cyclase (sGC) stimulator that leads to cGMP synthesis, and zaprinast, a cGMP-dependent phosphodiesterase (PDE)-V inhibitor that regulates cGMP breakdown, as well as the capacity of zaprinast to increase medial wall area during arterial growth in the rat serve as scientific rationale for the current proposal. In this summer research project, YC-1 and zaprinast will be investigated for their ability to alter VSM cell function under in vitro conditions.	6/1/2009	10/31/2010	93.701	3RO1HL081720-03S1
ECU	Joe Houmard	$ 30,000.00	X	X	X	HE	NIH	Physical Activity Following Surgery-Induced Weight Loss	We are requesting this supplement to purchas equipment that was not part of the original project to significantly and efficiently enhance the science of the overall project. This includes the addition of high-resolution respirometry measurements of mitochondria function in the human biopsy samples obtained in the parent project using the Oroboros Oxygraph-2K, which is the gold standard instrument for high-resolution measures of respiration and has been widely used in over 200 publications.	9/1/2009	8/31/2011	93.701	3R01DK078192-02S1
ECU	Eric Bailey	$ 26,606.00			X	HE	HRSA	ERHD Cert.	With the success of our current set of online ethnic health and health disparity related courses in the Department of Public Health, we have an online graduate certificate program in Ethnic and Rural Health in East Carolina University's Brody School of Medicine	9/1/2009	*8/31/2012	93.405	AHP16412-01-00
ECU	Ken Wilson	$ 12,193.00	X		X	OE	US Commerce	NC Broadband in Mapping: Assessment and Guidance	The grant enables states to collect comprehensive and accurate state-level broadband mapping data and to develop state-level broadband maps, with these efforts aimed at aiding in the development and maintenance of a national broadband map. Results obtained from the NC BRIM mapping effort will inform the related five-year broadband planning effort that comprises the second component of the NTIA award. The mapping project spans two years, with the majority of the work taking place between January 2010 and May 2011.	Jan-10	May-11	11.558	
ECU	Maura McAuliffe	$ 11,156.00			X	AC	HRSA	Nurse Anesthetist Traineeships	Promote Career Advancement in the field of Nursing	7/1/2009	*06/30/2010	93.124	2 A22HPO7395-04-00

$ 4,558,979.00

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FSU	George Johnson	$ 7,000.00	N/A	7/10/2009	Yes	OE	NC Dept. Of Crime Control & Public Safety	Rape Aggression Defense Program	The Rape Aggression and Defense (RAD) Program is developed to offer Basic Physical Defense course to female students, faculty and staff members. The course is designed for the average woman with no previous self-defense and no background in physical skills training. The RAD Basic Physical Defense course if founded on the principles of education and awareness. The course includes lecture, discussion and self=defense technique training.	7/1/2009	6/30/2010	

FSU	Nick Ganesan	1021401			x	ET	National Institute of Standards and Technology	Broadband Technology Opportunities Programs	The Fayetteville State University/Fayetteville Metropolitan Housing Authority Computer Center will provide 30 new computer workstations, wireless Internet access, and training courses at a new public computer center for the Fayetteville, North Carolina, community, including residents of local public housing. Twenty workstations will be located in a “smart classroom” with a ceiling-mounted projector and whiteboard for classroom training courses, and the remaining 10 workstations will be placed in an open-use area. The project will include courses on Internet basics, personal finance and health, and basic job skills. The first 50 users to complete all of these courses will receive a laptop computer for home use. The center will serve an estimated 550 users per week and will be open to the general public. This project will be led by Fayetteville State University, an Historically Black University, in partnership with the Fayetteville Metropolitan Housing Authority and other organizations that will provide training targeted to the needs of low-income persons.	3/1/2010	2/28/2013	11.557

$ 1,028,401.00

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NCA&TSU	Sankar, Jagannathan	$682,890.00		10-0049	EV	NSF	MRI-R2: Acquisition of a Nanotom Computed Tomography System for Revolutionizing Metallic Biomaterials	A multidisciplinary team of investigators from North Carolina A&T State University (NCAT) and its collaborators [University of Pittsburgh (Pitt), University of Cincinnati (UC), and Hannover Medical School (MHH - Germany)] requests NSF MRI-R2 funding for the acquisition of a Nanotom Computed Tomography System (nanoCT). This system will play a major role in supporting the	01/01/10	12/31/10	47.082	
NCA&TSU	Solomon Bililign	$ 671,587.00		09-0202	GR	NSF	Collaborative Project: Enhancing diversity in the geosciences through the AfricaArray Educational	Funding will be requested in our proposal to build a preeminent, sustainable program, through AfricaArray, for increasing minority representation within the geosciences by (1) assisting in the potential long term effort in the establishment of an Earth Systems Science Institute at North Carolina	08/15/09	07/31/14	47.082	GEO-0914415
NCA&TSU	Kenneth Flurchick	$ 384,330.00		09-0262	GR	NSF	Consortium for Research Computing for the Sciences, Engineering and Technology - CRCSET	The institutional Consortium for Research Computing for the Sciences, Engineering and Technology (CRCSET) is designed to further develop the application of computational methodologies to understanding the behavior of matter, physical phenomena, provide scientific and technical insight and to facilitate innovation and discovery in various disciplines. The	09/01/09	08/31/12	47.802	CNS-0923282

NCA&TSU	Mary Smith	$ 329,560.00		09-0455	HE	DHHS-NIH-NIGMS-NATIONAL INSTITUTE OF GENERAL MEDICAL SCIENCES	AARA Supplement for the NC A & T MARC U STAR Grant	This AARA supplement is to our parent MARC U STAR grant, the goal of which is to increase the number of minority students at NC A & T who will pursue doctoral research training and careers in biomedical research. The goal of the supplement is to enhance the effectiveness of our training program by increasing and intensifying our research training infrastructure and our instructional activities in research. This proposal includes a request for funds to establish a research training laboratory, a writing instructor, and a technician to facilitate	09/15/09	05/31/11	93.701	3T34GM083980-02S1
NCA&TSU	Goldie Byrd	$ 304,814.00		09-0445	HE	DHHS-NIH-NIGMS-NATIONAL INSTITUTE OF GENERAL	MBRS Research Initiative for Scientific Enhancement at North Carolina	The primary aim of this proposal is to increase minority participation in biomedical research through a broadly based training program for students, graduate students and faculty at North	09/15/09	06/30/11	93.701	3R25GM076162-03S1
NCA&TSU	Anna Yu	$ 275,000.00		09-0177	GR	NSF	TC: Large: Collaborative Research: Trustwirthy Virtual Cloud Computing	Virtual cloud computing is emerging as a promising solution to Information Technology management to both cases the provisioning and administration of complex hardware and software system and reduce the operation costs.	09/15/09	08/31/13	47.082	CNS-0909980
NCA&TSU	Assefa, Zerihun	$231,000.00		10-0047	EV	NSF	MRI-R2: Acquisition of Smart X2S Automated Bench Top Single Crystal X-ray	Abstract Most modern characterization techniques used in chemistry yield information either on the presence and connectivity of certain chemical groups, or on specific aspects of the chemical or physical properties of a	01/01/10	12/31/10	47.082	
NCA&TSU	Stephanie Luster-Teasley	$ 149,113.00		09-0343	GR	NSF	IEECI: Reforming Environmenal Engineering Laboratories for sustaninable Engineering	Environmental Engineering is a subset of the Civil Engineering discipline which specifically addresses management of systems to protect public human health and to treat, protect, and improve the environment. Environmental Engineering	09/01/09	08/31/11	47.041	EEC-0935154
NCA&TSU	Catherine White	$ 129,670.00		09-0427	OE	DHHS-NIH-NCMHD-NATIONAL CENTER ON MINORITY HEALTH AND	North Carolina Agricultural and Technical State University ? Summer Opportunity for	This is an administrative supplement to expand the RIMI program at North Carolina A&T State University (NCAT). The broad long-term objective of the NCAT Research Infrastructure in Minority Institutions (RIMI) program is to enhance and expand the	06/01/09	07/31/11	93.701	3P20MD000546-06S1

NCA&TSU	Elham Fini	$ 29,971.00		10-0024	EV	NSF	EAGER: Development and Charaterizatio of Bio-Binder from Swine Manure	The objective of this proposal is to use swine manure to produce a bio-binder to be used as partial replacement and modifier for asphalt binder on highways and airport pavements. Bio-binder is produced from thermochemical conversion of swine	11/01/09	10/31/10	47.082	CMMI-0955001
NCA&TSU	Harmohindar Singh	$ 4,500.00		10-0081	EV	DOE-NATIONAL ENERGY TECHNOLOGY LABORATORY	Technical Assistance for energy audits and M&V Services	CERT is committed to and capable of assisting consumers with the management and reduction of their energy use by providing Technical Assistance Services to them. CERT is capable of providing these services doing so in a number of ways. Preliminary Energy Surveys, Detailed Building System Energy Surveys, Strategic	09/16/09	03/31/12	81.086	NCDOC Letter 12/3/09

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NCCU	Wu, Marvin	489,000			X	EV	NSF	MRI -- R2: Acquisition of an Environmental Field Emission Scanning Electron Microscope for Research and Education at NCCU	The primary importance of the FESEM to nanoscience research across STEM disciplines allows development of a FESEM based nanoscience hub that will foster inderdisciplinary collaborations between NCCU researchers and help external users become aware of the growing nanoscience research efforts at NCCU.	02/01/10	01/31/12	47.082	
NCCU	Ibeanu, Taylor	220,272			X	HE	NIH	Identification of Small Molecule Ligands with NGF Potentiating Activity	This research focuses on developing pharmacological agents that potentiate the neurite outgrowith properties of nerve growth factor (NGF) and to initiate studies to elucidate the cellular targets of the lead compounds.	09/15/09	08/31/11	93.701	
NCCU	Kroll, David	104,681			X	HE	UNC-CH	Mechanisms Underlying Drug-Diet Interactions	The long term goal of the currently funded research project is to futher the mechanistic understanding of potential drugs and components of the diet.	07/17/09	02/28/11	93.701	
NCCU	Harris, Lorna	61,969			**x**	**HE**	HRSA	Scholarships for Disadvantaged Students	Provides financial support to students in our Nursing program.	09/01/09	06/30/10	93.407	
NCCU	Taylor, Darlene	48,172			**x**	EV	UNC-CH	Solar Fuels and Next Generation Photovolatics -- EFRC	Develop novel nanoscale and polymeric materials for high efficiency solar cells. Intensive research efforts have demonstrated the feasibility of solar cell devices and positioned the technology to be a viable enviromentally friendly future competitor of fossil fuel dependent technologies.	08/01/09	07/31/10	81.049	

924,094.00

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NCSU	Roberts, William L.	$1,999,172			X	ET	National Science Foundation	EFRI-HyBi Preliminary Proposal: Algal Oils to 'Drop-in'	This NSF EFRI HyBi will develop the technical feasibility and demonstrate scalability of a unique, multi-step catalytic process to convert a wide range of fats/oils/lipids into replacement transportation fuels that are chemically and physically similar to	8/1/2009	7/31/2013	47.082	EFRI-0937721
NCSU	Ning, Peng	$1,523,686			X	ET, HE, OE	National Science Foundation	TC: Large: Collaborative Research: Trustworthy Virtual Cloud Computing	Virtual cloud computing is emerging as a promising solution to Information Technology (IT) management to both ease the provisioning and administration of complex hardware and software systems and reduce the operational costs. This project proposes fundamental research that leads to trustworthy virtual cloud computing and paves the way for its wide-adoption. The objective is to systematically investigate the security problems in the context of virtual cloud computing and develop a suite of mechanisms that ensures the trustworthiness of virtual cloud computing for both service providers and customers. This project consists of three technical thrusts: (1) Thrust 1 -- new security architecture and services that better isolate different customers' workloads and enhance their trustworthiness; (2) Thrust 2 -- protection of management infrastructure against malicious workloads; and (3) Thrust 3 -- protection of hosted workloads from potentially malicious management infrastructure. The first thrust explores new opportunities to enhance the trustworthiness of virtual cloud computing against mutual threats between workloads as well as external security threats, while the last two address the service providers' security	9/15/2009	8/31/2013	47.082	CNS-0910767
NCSU	Carbonell, Ruben G.	$1,499,934			X	HE, OE	National Science Foundation	Kenan Master Teaching Fellows: Linking Research Experiences and Curriculum Development with Leadership	and Leadership Development, housed at the Kenan Institute for Engineering, Technology, & and Science on the North Carolina State University (NC State) campus, is partnering with school district, university, community college, and community leaders in North Carolina?s Base Realignment and Closure/Regional Task Force (BRAC/RFT) region to improve K-12 STEM education in these counties? high-need schools. Representing a region that surrounds Fort Bragg and Pope Air Force Base, BRAC/RFT was established to unify and serve 11 counties, 73 municipalities, eight community colleges, and six state and private universities,	6/1/2009	5/31/2015	47.082	DUE-0934658
NCSU	Shafer, David M.	$1,000,000			X	ET	National Science Foundation	NSF Graduate Research Fellowship Program - ARRA	North Carolina State University has been selected to receive National Science Foundation Graduate Research Fellowship support through the American Recovery and Reinvestment Act of 2009 (ARRA) in the amount of $1,000,000. The ARRA award (0946818) represents the full amount of funding and has a time period of five years from the effective date of the award. As these are to support three-year fellowships, North Carolina State is expected to draw down one-third of the total funding in each of the next three fellowship years (09-10, 10-11, and 11-	8/1/2009	7/31/2014	47.082	DGE-0946818

NCSU	Carpenter, Pam Page	$910,134			X	GR, AC, ET, HE, EV, OE	US Dept. of Energy (DOE)	Mid-Atlantic Joint Excellence in Solar Training Consortia(MAJESTC)	The North Carolina Solar Center (NCSC) in the College of Engineering at North Carolina State University (NCSU) and Mid-Atlantic states have partnered to submit this proposal for funding through the American Recovery and Reinvestment Act, DE-FOA-0000078, Topic Two-Solar Workforce Development,	1/1/2010	6/30/2011	81.117	DE-EE0002088
NCSU	Nevzorov, Alexander A.	$776,892			X	ET	National Science Foundation	High-Resolution Structures and Ligand-Induced Conformational Changes of	Intellectual merit: Membrane proteins are of tremendous importance for biology and pharmaceutical industry. However, their X-ray high-resolution structures are still difficult to obtain due to the challenges in crystallization posed by the presence of lipids. From this view, solid-state NMR (SSNMR) represents a	7/1/2009	6/30/2013	47.082	MCB-0843520
NCSU	McLaughlin, Anne	$770,856			X	HE	National Science Foundation	Collaborative Research: Improving Older Adult Cognition: The Unexamined Role of Games and Social	Recently, the concept of "brain games" that claim to slow or even reverse cognitive decline has become popular around the world. However, research into these existing games shows little in the way of general cognitive benefits. Research into novel training environments suggests that games based on cognitive training theory would be effective cognitive aids. Therefore, the goals of this research program are to understand how variables within	9/1/2009	8/31/2013	47.082	IIS-0905127
NCSU	Alonso, Jose M.	$733,503			X	GR, AC, ET, HE, EV, OE	National Science Foundation	Molecular Genetics of Ethylene-Auxin Interactions in Arabidopsis	signals is emerging as a critical mechanism in the generation of the tremendous phenotypic plasticity characteristic of plants. A good example is response to ethylene that depends on tissue type, developmental stage, and environmental conditions. Characterization of the Arabidopsis wei8/taa1 mutant has uncovered a small family of genes that mediates tissue-specific	7/15/2009	6/30/2012	47.082	MCB-0923727
NCSU	Flickinger, Michael Carl	$699,998			X	ET	National Science Foundation	Science Masters Program in Biomanufacturing	This SMP will create the first U.S. cross-disciplinary master?s degree in Biomanufacturing. The Biomanufacturing SMP (SMPB) will leverage existing State and industry resources and programs of the new Golden LEAF Biomanufacturing Training and Education Center (BTEC). This new 82,500 sq. ft. $50 million facility is the largest academic biomanufacturing training facility in the United States. It includes process scale simulated cGMP	7/1/2010	6/30/2013	47.076	DGE-1010633
NCSU	Corn, Jenifer O	$695,172			X	ET, HE, OE	NC Department of Public Instruction (US Dept. of Education (DED))	Statewide Evaluation of North Carolina's Enhancing Education Through Technology Competitive	The NCSU research team will partner with NC DPI to produce an annual evaluation report including the 31 schools receiving IMPACT continuation funding. Of these 31 schools, 23 are elementary or middle schools, and 8 are high schools. The focus of the evaluation in 2009/10 (Year 1) will be measuring student	10/1/2009	9/30/2011	84.386A	
NCSU	Hassan, Tasnim	$590,391			X	ET	National Science Foundation	NEESR CR, An Innovative Seismic Performance Enhancement Technique For Steel Building Beam-Column Connections	An innovative technique for improving seismic performance of steel beam-column connection with the advantages of the reduced beam section (RBS) connection, but with improved energy dissipation. Through a pilot study the concept is validated numerically at NC State University. This proposed research will conduct a systematic set of beam-column connection experiments for evaluating the novel seismic	1/1/2010	12/31/2012	47.082	CMMI-0936547
NCSU	Yu, Jie	$567,232			X	GR, ET, HE, EV, OE	National Science Foundation	CAREER: Multi-Scale Interactions of Waves, Currents and Morphology With Application to Rip Currents	Coastal evolution has become even more a concern under the scenarios of rising global sea levels, changing climate and accelerating human activities. World-wide, coastal erosion is becoming a still more serious problem than it already is. Being in direct contact with the land, the hydrodynamics in the surf zone has significant influences on nearshore sediment transport,	7/15/2009	6/30/2014	47.082	CBET-0845957

NCSU	Aiyyer, Anantha	$556,607			X	ET	National Science Foundation	CAREER: Dynamics of African Easterly Waves: Integrating phenomenological studies and Mathematical Instruction in Atmospheric Science	This proposal for career development is motivated by two overarching goals: [A] Investigation of African easterly wave (AEW) origin and storm track dynamics; and [B] Improving the current paradigm for mathematical instruction in undergraduate atmospheric science curriculum. AEWs are important synoptic-scale systems that impact West Africa and are precursors of the majority of Atlantic Tropical cyclones (TCs). Despite significant advancement in our understanding of these disturbances, several conceptual gaps remain. The research objectives of this study encompass open problems within two areas: (i) AEW origin from non-modal and stochastic forcing of the African easterly jet (AEJ); (ii) AEW evolution within a streamwise varying waveguide.	8/1/2009	7/31/2014	47.082	ATM-0847323
NCSU	Bonner, James C	$540,474			X	GR, AC, ET, HE, OE	National Institute of Environmental Health Sciences (NIEHS)	Lung Toxicity of Carbon Nanotubes in Models of Pre-Existing Respiratory Disease	exposure of millions of individuals to products containing nanomaterials. Carbon Nanotubes (CNTs) are engineered nanomaterials designed for multiple uses (electronics, engineering, medicine), but have properties similar to asbestos, a fiber that is linked with the development of pulmonary fibrosis (tissue scarring) and mesothelioma (a rare cancer on the pleural	9/27/2009	7/31/2010	93.701	1RC2ES018772-01-Revised
NCSU	Deiters, Alexander	$500,000			X	HE, OE	National Science Foundation	CAREER: Solid-Supported Cyclotrimerizations - A Library Approach to Research and Teaching	regioselective [2+2+2] cyclotrimerization reaction and establish it as an approach for the rapid assembly of natural products and libraries of analogs. These research objectives will be integrated with the pedagogical goal of teaching the library approach to the next generation of chemists. The discovery of new chemical entities with specific properties, e.g. biological activity, is greatly	7/1/2009	6/30/2014	47.082	CHE-0846756
NCSU	Zhang, Xiangwu	$499,467			X	ET, HE, OE	Celgard (US Dept. of Energy (DOE))	Battery Separators Containing Electrospun Nanofibers	Several Lithium Ion manufacturers are coating commercial separator products to provide improved performance in their battery designs. Celgard is aware of several such applications with their products; specifically in the vehicle electrification markets. The objective of this collaboration between North Carolina State University (NCSU) and Celgard, LLC is to predict the quality requirements of current Celgard battery separators in an application which combines Celgard products with high-	3/1/2010	2/28/2012	81.087	EE0002611-600
NCSU	Khaledi, Morteza	$499,050			X	ET	National Science Foundation	CRI: MO Acquisition of Cyber-Enabled X/Q-Band CW EPR Spectrometer For Use in Research and Education	The Department of Chemistry at North Carolina State University proposes to acquire a state-of-the-art cyber-enabled Bruker Biospin E-500-EleXsys X/Q-band Electron Paramagnetic Resonance (EPR) spectrometer. This instrument would replace a quarter-century-old and largely outdated Bruker-IBM ER200D-SRC instrument that is now operational only about 70% of time	8/1/2009	7/31/2012	47.082	CHE-0840501
NCSU	Threadgill, David	$498,404			X	GR, AC, ET, HE, OE	National Institutes of Health (NIH)	Revolutionizing Preclinical Detection of Risk Factors For Idiosyncratic Drug-Induced Liver Injury	Drug-induced liver injury (DILI) is the major adverse drug event that leads to regulatory actions on drugs, including failure to approve, restricted indications, and withdrawal from the marketplace. The most problematic form of DILI is ?idiosyncratic?, meaning the drug is safe for the vast majority of treated patients while causing catastrophic liver injury in the rare susceptible patient. A variety of data suggests that genetic	9/30/2009	7/31/2010	93.701	1RC1DK087510-01

NCSU	Buchwalter, David B.	$485,999			X	HE, OE	National Science Foundation	Comparative Strategies of Ion Trafficking and Antioxidant Physiology in Stream Insects: A Phylogenetic Approach	Summary Aquatic insects play critical ecological roles and are of practical importance due to their widespread use in biomonitoring programs, yet their physiology is poorly understood. This research program will use a phylogenetically based, comparative approach to understand and predict physiological attributes of species within and among two dominant aquatic insect lineages. Extant aquatic insect species are believed to be descendants of terrestrial ancestors who invaded aquatic habitats several times over evolutionary history.	8/1/2009	7/31/2012	47.082	IOS-0919614
NCSU	Haigler, Candace H.	$478,100			X	ET, HE, OE	Pennsylvania State University (US Dept. of Energy (DOE))	Center For Lignocellulose Structure and Formation	Given the importance of cellulose in nature and to sustainable energy for human civilization, it is surprising that we still understand few details about the structure of cellulose synthase (CS) or the mechanistic operation of the multimeric cellulose synthesizing complex (CSC). We know only enough to see that the CSC is one of the more remarkable nanomachines that exists	8/1/2009	7/31/2010	81.049	4005-NCSU-DOE-1090
NCSU	McMillan, William Owen	$452,502			X	GR, ET, HE, EV, OE	National Science Foundation	Acquisition of Massively Deep-read Sequencing Technology at NCSU	We propose to purchase an ABI SOLiDTM sequencing platform with ancillary equipment for sample preparation and array-based targeted genomic capture. The equipment brings deep-read sequencing technology to NCSU, which is needed for continued competitiveness and research productivity. It will be housed with other core genomic equipment in NCSU's Genome Science Lab (GSL). The new equipment will serve a diverse user community and will be an essential tool in research requiring i) full genome and targeted resequencing, ii) SNP detection, genotyping, genetic mapping, iii) small RNA discovery, and iv) transcriptional profiling. Research projects directly benefiting from the acquisition of the ABI SOLiDTM focus on understanding the relationship between genetic variation and phenotypic diversity and range from understanding how life persists in extreme environments to determining the mechanisms by which	9/15/2009	8/31/2010	47.082	DBI-0923119
NCSU	MacKay, Trudy F.	$438,949			X	HE, OE	National Institutes of Health (NIH)	QTLs in Drosophila	The parent grant proposes a detailed systems genetics analysis of variation for complex traits in Drosophila, using the Drosophila Genetic Reference Panel (DGRP) of 192 inbred D. melanogaster lines with complete DNA sequence data. These lines and genome wide polymorphism data will be a community resource for rapid and high resolution mapping of genes affecting complex traits. Molecular polymorphisms affect quantitative traits by perturbing transcriptional and other biological networks, and these perturbations depend on the environment in which the individuals are reared. Therefore, the parent grant seeks to understand the impact of genetic variation on both underlying networks and genetic variation for the traits	9/1/2009	8/31/2011	93.701	3R01GM045146-17S1
NCSU	Gu, Xiaohui	$405,000			X	ET	National Science Foundation	CSR: Small: Online System Anomaly Prediction and Diagnosis for Large-Scale Hosting Infrastructures	Large-scale hosting infrastructures have become important platforms for many real-world systems such as cloud computing, virtual computing lab, enterprise data centers, and web hosting services. However, system administrators are often overwhelmed by the tasks of correcting various system anomalies such as performance bottlenecks, resource hotspots, and service level objective (SLO) violations. The goal of this project is to develop novel online anomaly prediction and diagnosis techniques to achieve robust continuous system operation. The major contributions will be an integrated	9/1/2009	8/31/2012	47.082	CNS-0915567

NCSU	Roberts, William L.	$398,239			X	GR, EV	Arizona State University (US Dept. of Energy (DOE))	Cyanobacteria Designed for Solar-Powered Highly Efficient Production of Biofuels	The goal of the project is to overproduce fatty acids using sunlight and CO2 in the cyanobacterium Synechocystis sp. PCC 6803 without depending on growth of the organism. Cyanobacteria are excellent organisms for the production of biofuel. Unlike algae, their genomes are relatively easy to manipulate. They are efficient at converting solar energy into lipids, and unlike energy crops, they can be grown on non-arable land. Upon genetic modification of Synechocystis, medium- and long-chain fatty acids will be overproduced and secreted into the medium. This procedure does not require growth or extraction of Synechocystis, and the cyanobacterium can act as a biocatalyst in high-density, stationary phase culture utilizing sunlight and CO2 for biofuel feedstock production. The lack of major biomass production enables the highly efficient conversion of solar energy into biofuel-compatible feedstocks, with efficiencies approaching the maximal theoretical limit of 28%.	1/1/2010	12/31/2011	81.135	10-359
NCSU	Orndorff, Paul E.	$397,633			X	HE, OE	National Institutes of Health (NIH)	Live Oral Listeria Vaccine Vector	of using bacteriophage resistance as a feature of a live, attenuated, oral Listeria monocytogenes vaccine delivery platform. We are studying a phage resistant mutant in which a Tn917 insertion interrupts a gene whose product is required for the production of the phage receptor. This lesion also results in profound attenuation but retention of the immunostimulatory characteristics for which L. monocytogenes is well known. We intend to use the funding requested to conduct proof-of-	6/1/2009	5/31/2011	93.856	5R21AI064 333-02
NCSU	Anholt, Robert R.	$360,045			X	GR, AC, HE, OE	National Institutes of Health (NIH)	Oxidative Stress and Neurogenetic Networks in Drosophila	Environmental toxins, such as the herbicide paraquat, cause neuronal cell death through oxidative stress. Locomotor impairments are sensitive indicators of neurodegeneration. A long-standing challenge in environmental health science is to assess the effects of environmental chemicals such as pesticides or herbicides on genetic risk for neurodegenerative diseases as manifest through locomotor dysfunction (e.g. Parkinson?s disease). Studies on genotype by environment interactions require a model system in which both the genetic background and the rearing environment can be controlled precisely. The	9/28/2009	7/31/2010	93.701	1RC1ES018 255-01
NCSU	Sherry, Barbara	$358,752			X	ET, HE, OE	National Institutes of Health (NIH)	Reovirus Modulation of the Cardiac Innate Response: Type I Interferon and HSP25	Our overall goal is to identify novel components of the host innate antiviral response and novel mechanisms by which viruses subvert this response to cause disease. Cardiac myocytes are non-replenishable; thus the heart is unusually dependent on this first-line defense. Indeed, we have shown that the cardiac Type I interferon (IFN) response is unique, and that in reovirus-induced murine myocarditis the IFN response differs between virus strains and is critical for protection. We continue to use this powerful tool-kit of viruses to probe the innate response in	9/2/2009	8/31/2010	93.701	1R56AI083 333-01
NCSU	Monteiro, Nancy A.	$349,821			X	GR, AC, HE, OE	National Institutes of Health (NIH)	Comparative In Vivo Biodistribution of Characterized Manufactured Nanomaterials	There has been explosive growth in engineering disciplines based on nanomaterials. Their unique physical properties compared to larger microparticles both enable these novel engineering applications as well as raise questions related to their interaction with biological systems. There is a crucial need to define in vivo disposition of manufactured carbon nanomaterials (MNM) where environmental and/or	9/17/2009	8/31/2010	93.701	1R01ES161 38-01

NCSU	Yuter, Sandra E.	$345,879			X	GR, EV	National Science Foundation	Collaborative Research: Intermittent and Steady State Processes in Orographic Precipitation	Improved forecasting of orographic precipitation requires continued integration of theory, field studies, and long term observations. While much of the previous work on orographic precipitation has focused on steady-state processes, little work has been done on intermittent precipitation cells. Current linear models and non-linear mesoscale forecast models such as MM5 and WRF cannot consistently reproduce orographic precipitation patterns at time scales of individual storms and small spatial scales over individual terrain ridges. Our underlying working hypothesis is that these problems are in large part a result of errors in the representation of steady state and intermittent processes within the models. We propose an integrated modeling and observational study building on our previous research. We will use NWS operational observations from WSR-88D radar, upper air soundings, and observations from NCSU?s vertically pointing radars and distrometers to characterize intermittent precipitation and ice microphysics and to evaluate model output. At the end of the study we expect to be able to characterize cell lifestyle and tracks of intermittent orographic precipitation and to quantify its relative importance compared	9/1/2009	8/31/2012	47.082	ATM-0908420
NCSU	Dickey, Michael D.	$340,706			X	ET	National Science Foundation	Stretchable, Tunable, Self-Healing Micro-Fluidic Antennas	We propose a new paradigm in antenna design and development that can lead to very low-loss radiating/receiving devices that are mechanically stretchable, flexible, and "self-healing". These properties offer a wide spectrum of possibilities in reconfigurable antennas for wireless and tactical sensor applications, with spectral response and geometry that can be modulated by strain, motion, pressure, and electric potential.	9/1/2009	8/31/2012	47.082	ECCS-0925797
NCSU	Daugherty, Scott R	$340,000			X	ET, HE, OE	NC Department of Commerce (US Dept. of Labor (DOL))	Biz Boost For Charlotte Region	The Small Business & Technology Development Center (SBTDC) and other statewide, state-funded agencies and organizations that provide services to the state's businesses are partnering on a demonstration project, entitled BIZ BOOST. The project will focus on retaining businesses and jobs in the 12-county Charlotte region by providing existing, specialized services and resources to targeted businesses. The project will serve businesses with full-time employees in the Region, with the program of work including 5 elements. 1) Identify prospective companies; 2) Assess the needs and condition of the companies; 3) Serve the companies with training, management consultation and technical assistance; 4) report the outcomes and impact; 5) learn from the program to be able to improve it and replicate it.	6/15/2009	9/30/2010	17.26	None Provided

NCSU	Fang, Tiegang	$330,000			X	GR, EV	National Science Foundation	Variable Geometry Spray Fuel Injection: Investigating its Effects on Combustion Efficiency and Emissions	Advanced fuel injection strategies are central to efforts to improve the performance and emissions characteristics of internal combustion engines. Existing fuel injectors severely restrict the strategies that can be explored, however, because of their fixed spray geometries. We propose to develop and experimentally study a novel fuel injector that can continuously vary its spray angle throughout the injection process, and do so independently of fuel flow rate. Such an injector could increase engine efficiency and reduce pollutants by optimizing air-fuel mixing and the distribution of atomized fuel within the cylinder. Preliminary data (from experimental testing at atmospheric conditions and corresponding numerical simulations) supports the feasibility of our proposed Variable Geometry Spray (VGS) technology, but further testing at realistic engine conditions is needed. Using this VGS prototype, we propose to investigate the transient effects of spray geometry variation on fuel atomization, air-fuel mixing, ignition, and pollutant formation processes at realistic injection pressures and in-cylinder ambient conditions. Our research will experimentally demonstrate computer-controlled, VGS fuel injection and will quantify its impact on the production of NOx and SOx, as well as overall	8/15/2009	7/31/2012	47.082	CBET-0854174
NCSU	Threadgill, David	$323,500			X	GR, AC, ET, HE, OE	National Institutes of Health (NIH)	New Faculty Recruitment for Systems Genetics Research Core Center	The Department of Genetics at North Carolina State University was founded in 1958 and has established a long and esteemed record of contributions to quantitative genetics using model organisms. The Department of Genetics is housed in the four-story South Gardner building and occupies approximately 35,000 square feet on the second and third floors. Much of the space was renovated in 2006. The department has common facilities including a media kitchen, growth and storage chambers and adjacent small animal and greenhouse space to support a variety of research activities using multi-cellular model organisms including Arabidobsis thaliana, Caenorhabditis elegans, Drosophila melanogaster and Mus musculus. With the hiring of a new department head in 2008, a revitalization of the historical strengths in the department was begun with a focus on building a Research Core Center in Systems Genetics. The first targeted hires were for two population or quantitative geneticists. An open search was performed and seven candidates interviewed. Two outstanding candidates were selected but before offers could be finalized, hiring was frozen for lack of resources to adequately support start-up funding due to the worsening economy in the state of North Carolina.	9/30/2009	8/31/2010	93.701	1P30GM092371-01
NCSU	Anholt, Robert R.	$320,787			X	GR, AC, HE, OE	National Institutes of Health (NIH)	Molecular Genetics of Olfaction in Drosophila	This is a request for an administrative supplement to enable incorporating a proteomics component in specific aim 2 of grant R01-GM059469 (Molecular genetics of olfaction in Drosophila). This specific aim focuses on assessment of naturally occurring variation and environment-dependent plasticity in expression of chemoreceptors in Drosophila through transcriptional profiling using expression microarrays. The requested supplement will	8/3/2009	7/31/2011	93.701	3 R01 GM059469-13S1

NCSU	Ade, Harald W.	$317,622			X	GR, ET, HE, EV, OE	National Science Foundation	Collaborative Research: Characterization of the Microstructure and Charge Transport at	We propose to study the impact of interfacial interactions of polymers on charge transport in semiconducting polymers. The proposed experiments will attempt to disaggregate, for the first time, the impact of molecular organization, dipolar interactions, and roughness at interfaces on charge transport in these systems. Accomplishment of this overall goal will require (1)	7/1/2009	6/30/2012	47.082	DMR-0906457
NCSU	Rizkalla, Sami H.	$315,000			X	ET	National Science Foundation	Collaborative Research Thru NSF I/UCRC Full Grant: Center For the Integration of Composites Into Infrastructure (CICI)	Efficient infrastructure systems such as highways, bridges, buildings, pipelines, flood control systems and utilities are all necessary for a healthy economy and comfortable standard of living. Concrete and steel are the backbones of physical infrastructure. It is envisioned that the proposed Center will focus on new research concerning: 1) development of constituent material combinations for optimum end products, 2) cost-effective ways to manufacture products, 3) ?green? production, including the use of bio-fiber and resins and	7/15/2009	6/30/2014	47.082	IIP-0934182
NCSU	Tsuji, Jun N.	$310,405			X	GR, HE, OE	National Institutes of Health (NIH)	TAK1 Regulation of Reactive Oxygen Species and Inflammation	Revised Abstract Section: TAK1 kinase is an indispensable intermediate in the intracellular signaling of innate immune responses. TAK1 is activated by many of distinct factors including Toll-like receptor ligands, intracellular microorganism sensor (NOD like receptor) ligands, IL-1 and TNF. TAK1 upregulates proinflammatory responses through activation of NF- ϕB and mitogen activated protein kinase pathways. Thus, TAK1 is generally considered to be a positive regulator of inflammation. However, we have recently found that the targeted deletion of	9/30/2009	8/31/2010	93.701	1R01GM084406-01A2
NCSU	Dickey, Michael D.	$303,474			X	ET	RTI International (aka Research Triangle Institute) (US Army (RDECOM))	Novel Concepts for the Light Management in Flexible Photovoltaics	This collaborative effort aims to improve light harvesting of thin film solar cells to increase the over all efficiency of these devices. This work will explore thin film processing and thin film instabilities to create light absorbing topography.	1/15/2010	1/14/2011	BAA09-11	1-340-0212507
NCSU	Zublena, Joseph P.	$300,206			X	GR, AC, ET, HE, OE	Northeast Workforce Development Board (NC) (US Dept. of	WIA Workforce Readiness	Summer workforce development program for youth ages 16-24 in a 10 county region	5/1/2009	11/25/2009	17.259	None Provided
NCSU	Rao, Balaji M	$298,106			X	ET, HE, OE	National Science Foundation	Hyperthermophilic Affinity Ligands For Protein Purification	The cost of downstream processing is a major component of production of protein biopharmaceuticals. Affinity chromatography, wherein an immobilized ligand is used to selectively separate the desired target protein from a complex mixture, can greatly reduce the number of steps required for protein purification. However, unavailability of stable and low cost ligands that allow for mild elution conditions limit the	7/1/2009	6/30/2012	47.082	CBET-0853771
NCSU	Duckworth, Owen	$297,256			X	GR, HE, EV	National Science Foundation	Defining Critical Roles of Siderophore Structures in Environmental Trace Metal Cycling	The perceived environmental roles of siderophores, biogenic chelating agents exuded by organisms to increase the bioavailability of iron by complexation, has traditionally excluded other important trace metals and focused largely on biologically facilitated iron transport. Recent work has suggested that siderophores likely are involved in the biological solublization and uptake of other environmentally important	8/15/2009	7/31/2012	47.082	EAR-0921313
NCSU	Bottomley, Laura J	$284,813			X	HE, OE	National Institutes of Health (NIH)	Curricula Improve Science and Mathematics Learning in Elementary School Students?	implementing various curricula that use engineering. From high school curricula that are fairly comprehensive (i.e. Project Lead the Way) to textbooks intended for middle or high school courses (i.e. Survey of Engineering from Great Lakes Press) to elementary school after school clubs based on activities from engineering societies and more comprehensive sets of activities	9/30/2009	8/31/2010	93.701	1RC1EB011268-01

NCSU	Stahl, Chad	$280,846			X	ET, HE, OE	SoyMeds, Inc. (National Institute of Allergy and Infectious Diseases)	A Novel Therapy for Staphylococcal Enterotoxin B Poisoning	N.C. State University will serve as the partnering research institution for the Phase II STTR small business application submitted to NIAID by SoyMeds, Inc. The goal of this research is to produce highly cost effective vaccines to prevent Staphylococcal enterotoxin B (SEB) poisoning. Drs. Stahl and Odle will be responsible for conducting the following animal	9/2/2009	8/31/2011	93.701	2010-0508
NCSU	Kelly, Robert M.	$272,656			X	HE, OE	National Institutes of Health (NIH)	Metabolic Engineering Studies of Extreme Thermoacidophily	Extreme thermoacidophily (growth ˜ 60˚C, pH ˜ 3) is a remarkable growth physiology exhibited by certain members of the Crenarchaeota and Euryarchaeota, the major archaeal phyla. Interesting features of microorganisms in this group include: exploitation of large pH gradients across the cell membrane to drive proton pumping for maintaining a near	9/30/2009	8/31/2010	47.41	1R01GM090209-01
NCSU	Deans, Andrew Robert	$253,123			X	HE, OE	National Science Foundation	NC State University Insect Museum: Safeguarding and Developing a Community Resource	Urgent Needs for the NCSU Research Collection The equipment, infrastructure, databasing, training, and research proposed herein facilitate a transcendence from specialized resource for researchers in Entomology and a handful of systematists worldwide, into the realms of public education and service, broad graduate student training, and data provider. Our	9/1/2009	8/31/2011	47.082	DBI-0847924
NCSU	Cubeta, Marc A.	$252,064			X	HE, OE	National Science Foundation	Research and Educational Use of the North Carolina State University Mycological Herbarium Through	The mycological herbarium at North Carolina State University has the largest and most comprehensive collection of wood decay fungi from the southeastern US. The collection consists primarily of wood decay and plant pathogenic fungi from ecologically diverse and unique habitats located in the Southern Appalachian mountains, Nags Head Woods, the largest	9/1/2009	8/31/2011	47.082	DBI-0847868
NCSU	Riehn, Robert	$233,806			X	GR, AC, HE, OE	National Institutes of Health (NIH)	Epigenetic Profiling by Near-Field UV-Raman Scattering in Nanochannels	The long-term aim of this proposal is to develop a technique that will enable highly automated, multi-functional epigenetic profiling of whole chromosomes from single cells. Such a technique will provide a tool for single-molecule studies probing the epigenetic diversity of cell populations. We believe that such knowledge will be very valuable in fields where epigenetic programming has emerged as a central theme in disease-	9/18/2009	8/31/2010	93.701	1R21CA132075-01A1
NCSU	Dean, Gregg A.	$207,368			X	GR, HE, OE	National Institutes of Health (NIH)	Recombinant Lactobacillus as an Oral Mucosal Vaccine Against HIV-1	Transmission of HIV-1 occurs predominately at mucosal surfaces and therefore a successful vaccine against HIV-1 must induce mucosal humoral and cellular immune responses. Lactic acid bacteria have been used for centuries to process and preserve food and are well known for their probiotic activities. Recently members of the lactic acid bacteria family have been explored	9/22/2009	8/31/2011	93.701	3R01DE019069-02S1
NCSU	Eggleston, David B.	$198,465			X	ET, HE, OE	North Carolina Coastal Federation (National Oceanic & Atmospheric Administration (NOAA))	Ecological Performance and Recreational Fishing Impacts of Large-Scale, Sub-Tidal Oyster Restoration	historic lows, and the NC DMF is building new oyster reefs in Pamlico Sound to be used as unfished, broodstock reserves for oyster restoration (Street et al. 2005). Little is known about oyster population dynamics within each reserve, the potential for reserves to persist as a network of distinct subpopulations connected by larval dispersal (i.e., a metapopulation), or the	7/1/2009	12/31/2010	11.463	
NCSU	Orndorff, Paul E.	$186,024			X	HE	National Institutes of Health (NIH)	Immunogenicity of an Attenuated Listeria Monocytogenes Bacteriophage Resistant Mutant	bacteriophage resistance confers attenuation, while preserving immunogenicity of a Listeria monocytogenes strain that is oral-virulent for mice. Mutants of listerial strain F6214-1 that are resistant to phage P35h4 are attenuated when inoculated orally into female A/J mice and show impaired replication in cultured mouse enterocytes. One of these mutants, containing a Tn917	7/18/2009	6/30/2010	93.701	1R21AI083838-01

NCSU	Daugherty, Scott R	$180,142			X	ET, HE, OE	NC Department of Commerce (US Dept. of Labor (DOL))	Entrepreneurship & Education for Biz Boost Charlotte - NC Workforce Development	The Small Business & Technology Development Center (SBTDC) and other statewide, state-funded agencies and organizations that provide services to the state's businesses are partnering on a demonstration project, entitled Entrepreneurship & Education. The project will focus on educating businesses in the 12-county Charlotte region by providing existing, specialized services and resources to targeted businesses.	6/15/2009	9/30/2010	17.2	None Provided
NCSU	Hall, Carol K.	$178,767			X	GR, ET, HE, OE	National Institutes of Health (NIH)	Computer Simulations of Protein Aggregation	Supplement to accelerate the tempo of research currently supported by 5R01GM056766-08, which is titled Computer Simulations of Protein Aggregation. The supplement would be used to hire an additional postdoctoral associate, consistent with the ARRA aim of promoting job creation and accelerating	3/1/2009	2/28/2011	93.701	3R01GM05676608-08S1
NCSU	Muse, Spencer V.	$166,424			X	HE	National Institutes of Health (NIH)	Biostatistics Training in the Omics Era	This is a Year 3 progress report for our training grant Biostatistics Training in the Omics Era. The goal of the training grant is to provide interdisciplinary training at the interface of biostatistics and genomic science.	7/1/2009	6/30/2010	93.701	3T32GM081057-03S1
NCSU	Fish, Richard E.	$161,470			X	ET	National Institutes of Health (NIH)	Improving Animal Resources at N.C. State University	This improvement request involves animal facility equipment purchase for the North Carolina State University (NCSU) College of Veterinary Medicine (CVM), specifically, individually ventilated cage systems for mice, and support equipment, for use in the the Research Building Vivarium. The Research Building was designed to meet critical space needs within the CVM for research laboratories, faculty and staff office and meeting room space, and rodent housing. The Research Building, which opened in early 2006, is a 102,000 gsf , four-story building, with an 11,000 gsf vivarium on the ground floor. Specific aims of this	6/8/2009	6/7/2010	93.701	1G20RR021375-01A1
NCSU	Dutta, Rudra	$159,753			X	ET	Global Environment for Network Innovations (GENI) (National Science Foundation)	Geni Imf: Integrated Measurement Framework And Tools For Cross Layer Experimentation	The goal of this project is to develop and deploy a GENI instrumentation framework, integrate it into one of thecfive control framework prototypes, and develop a set of experimenter capabilities to enable cross-layer experimentation in the optical substrate.	10/1/2009	9/30/2010	47.082	CNS-0940805
NCSU	Zublena, Joseph P.	$155,842			X	GR, AC, ET, HE, OE	Turning Point WDB, Inc. (US Dept. of Labor (DOL))	RISE Respect and Integrity through Skills and Education	Six week summer educational training delivered by staff in Nash, Edgecombe, Wilson, Halifax, and Northampton Counties to 120 youth. All youth will work 32 hours per week on job sites through CES and required to attend educational training for 8 hours per week for a total of 40 hours per week. Grant is from stimulus dollars for targeted youth, ages 14-24 years of age.	6/1/2009	6/30/2010	17.259	8-4040-21-4680-01,02,03,04,05
NCSU	Jennings, Gregory D.	$150,000			X	ET, HE, OE	NC Department of Environment & Natural Resources (DENR) (US Dept. of Agriculture (USDA))	ARRA - Dupont State Forest Lake Julia Outfall Stream Restoration	Faculty, staff, and students associated with the North Carolina State University (NCSU) Department of Biological and Agricultural Engineering will work with the North Carolina Division of Forest Resources (DFR) to complete a stream restoration demonstration/education project on the Unnamed Tributary to Little River located immediately downstream of the	2/15/2010	3/31/2011	10.687	2876

NCSU	Sannes, Philip L.	$148,959			X	HE, OE	National Institutes of Health (NIH)	Differentiation of Alveolar Epithelium and Pulmonary Fibrosis	fibrosis (IPF) have been linked to faulty repair of injured alveolar epithelium where proliferating alveolar type II (AT2) cells do not effectively differentiate into type I (AT1) cells. This leads to irreversible damage, fibrosis, and loss of function. The mechanisms that normally control the process of differentiation of AT2 cells into AT1s are poorly understood, so regulatory molecules or pathways that are affected by these pathogenic	5/11/2009	4/30/2011	93.701	5R03HL095411-02
NCSU	Deiters, Alexander	$142,739			X	GR, AC, HE, OE	National Institutes of Health (NIH)	Switchable Systems for Spatio-Temporal Control of Gene Expression in Zebrafish	investigating the genetics of human disease and development; however, currently no generally applicable tools for dissecting embryonic gene function in a switchable, spatio-temporal manner exist. However, morpholino antisense agents are one of the most used gene silencing tools for zebrafish embryos. Within the scope of the parent grant, which discusses ribozymes as potentially light-switchable antisense agents, we are proposing	1/8/2010	12/31/2010	93.701	3R01GM079114-03S2
NCSU	Whitten, Jerry L.	$142,146			X	ET, HE, OE	UNC - UNC Chapel Hill (US Dept. of Energy (DOE))	UNC-CH EFRC: Solar Fuels and Next Generation Photovoltaics	Subcontract to Maggard and Whitten at NC State to work on solid/solution interfaces using experimental and theoretical methods.	8/1/2009	7/31/2010	81.049	535933
NCSU	Leach, James W.	$140,000			X	GR, ET, EV	US Dept. of Energy (DOE)	Industrial Assessment Centers Recovery Act	This proposal requests funding for additional work under the Industrial Assessment Center umbrella using funds from the American Recovery and Reinvestment Act of 2009. Eight additional industrial energy surveys and six follow-up technical assistance events are proposed. Facilities served will be in North Carolina, South Carolina, and southern Virginia. The proposal also strenghtens our partnerships with the NC State Energy	12/1/2009	5/31/2011	81.086	DE-EE0002681
NCSU	Wolfram, Walter A.	$134,850			X	HE, OE	UNC - UNC Chapel Hill (National Science Foundation)	The Longitudinal Development of African American English and its Role in School Achievement	This research examines the development of African American English (AAE) from childhood through adolescence and its potential impact on literacy acquisition and school achievement based on a unique, longitudinal database of 70 African American adolescents from low-and middle-income families. For 17 years, starting with infancy, the language of these youth has been progressively documented, from infancy through childhood and	9/15/2009	8/31/2013	0	5-54774
NCSU	MacKay, Trudy F.	$112,363			X	ET, HE, OE	National Institutes of Health (NIH)	Initiative for Maximizing Student Diversity	The purpose of this administrative supplement to the NC State Initiative for Maximizing Student Diversity (IMSD) Program is to increase and extend the science and training opportunities to IMSD students. Funds from the supplement will allow the program to engage biomedical and behavioral science researchers, both internal and external to NC State University, to participate in various professional development and research	9/1/2009	8/31/2011	93.701	3R25GM083242-02S1
NCSU	Scholle, Frank	$110,095			X	HE	University of Texas Medical Branch - UTMB (National Institutes of Health (NIH))	Innate Immune Recognition Enhances Flavivirus Vaccine Efficacy	Flaviviruses populate the NIAID's category A, B, and C lists of viruses. Vaccines are urgently needed for multiple flavivirus diseases, notably dengue and West Nile encephalitis. To develop more effective vaccines a comprehensive understanding of how flaviviruses trigger immune responses is needed. To address this need, we developed single-cycle flaviviruses and packaging cell	8/1/2009	7/31/2010	93.701	
NCSU	Zeng, Zhao-Bang	$108,813			X	GR, AC, ET, HE, OE	Duke University Medical Center (National Institutes of Health (NIH))	Metabolomics Network For Drug Response Phenotype (RC2)	The current application is specifically designed to build additional capabilities within the "Metabolomics Network for Drug Response Phenotype" to enable integration of metabolomics and pharmacogenomics data to achieve a deeper understanding of mechanisms implicated in drug-response variation towards a more personalized approach to therapy. Metabolomics is the study of metabolism at the "global" level and involves studies of the "metabolome", the entire repertoire	9/30/2009	8/31/2010	93.701	164668

NCSU	Banks, Harvey T.	$102,393			X	GR, AC, ET, HE, OE	National Institutes of Health (NIH)	Mathematical and Statistical Modeling to Inform Design of HIV Clinical Trials	We are proposing to enhance and accelerate our efforts in our research collaborations with scientists and physicians investigating the progression of HIV and related viruses. The research proposed in our parent grant, which expands on our success in a previous NIGMS grant, and relies on a unique, substantial collaboration merging expertise in immunology and clinical investigation with expertise in mathematical and statistical modeling. In the parent grant we have proposed the following specific aims, representing linked components of an iterative strategy where clinical and modeling developments are both informed by and inform each other: (i)To develop and	3/29/2010	2/28/2011	93.701	3R01AI071915-08S1
NCSU	Wallace, Andrew Daniel	$90,802			X	HE, OE	Northwestern University (National Institutes of Health (NIH))	DNA Methylation Alterations in Response to Pesticide Exposures	Aberrant DNA promoter methylation, an emerging hallmark of cancer, is affected by environmental exposure and alters gene expression without changing DNA sequence. Changes in DNA methylation, therefore, appear to constitute an important link between environmental exposure and disease risk. For the particular case of pesticides, we have previously shown in an Inuit population, a highly pesticides-exposed population, that higher plasma levels of pesticide were associated with DNA	9/27/2009	7/31/2010	93.701	60025098 NCSU
NCSU	Threadgill, David	$89,400			X	ET, HE, OE	UNC - UNC Chapel Hill (National Institutes of Health (NIH))	An Interdisciplinary Program for Systems Genomics of Complex Behaviors	This application is a partner to a parent RO1 that seeks to develop proposes to exploit the Collaborative Cross to elucidae the genetic and environmental determinants of complex phenotypes drawn from psychiatry. This will be achieved through a combinatorial analysis of genetics, behavior and molecular analysis. This sub-project will lead an effort to derive mouse embryonic fibroblast lines from the same lines being studies in vivo in order to have a cell-based system to perform validation studies of candidate genes. This will be achieved by	9/30/2009	8/31/2010	93.242	5-30157
NCSU	Patisaul, Heather B	$73,551			X	HE, OE	University of Rochester (National Institutes of Health (NIH))	Prenatal Bisphenol A Exposure and Neurodevelopment (BEND)	Revised PINS record for initial application because the notice of award included an across the board 20% budget reduction.	9/27/2009	7/31/2010	93.701	100031-D
NCSU	Schwartz, Justin	$65,124			X	ET	Florida State University (US Dept. of Energy (DOE))	Very High Field Superconducting Magnet Collaboration: Quench Behavior of Bi2212 coils and SMP of Bi2212 Cables	The High Energy Physics community has identified important new physics opportunities enabled by extremely high field magnets that are beyond the ~20 T reach of present Nb-Ti and Nb3Sn technology, including 20+ T dipoles and quadrupoles for high-energy hadron colliders and 20-50 T solenoids for muon cooling in a neutrino factory or a muon collider. While it is evident to the superconductor community that Bi2212 is one of	1/15/2010	7/31/2010	81.999	R01276-ARRA
NCSU	Riehn, Robert	$48,759			X	HE	National Institutes of Health (NIH)	Sequencing DNA by Transverse Electrical Measurements in Nanochannels	The proposed research aims at laying the fundaments for developing a sequencing device that can be deployed at point-of-care locations. In this capacity it will help guide therapies in which the genetic makeup of a patient is important to the suitability of treatments, or where the genetic identity of pathogens must be known.	8/1/2009	7/31/2010	93.701	3R21HG004383-02S2
NCSU	Saveliev, Alexei V.	$33,000			X	GR, EV	Gas Technology Institute (US Dept. of Energy (DOE))	Gas Quality Sensor for Opportunity Fuels: Co2 Measurement Capabilities and Data Processing Algorithms	Modern demands imposed on energy efficiency and variety of natural gas mixtures used today for energy generation call for development of novel methods for characterization of fuel properties. Variations of fuel composition, e.g. dilution with inerts and/or increased content of C2 and higher hydrocarbons, alter the performance of combustion systems in heating and material processing applications. The uncontrolled fuel	8/1/2009	4/30/2010	81-087	S00000110

NCSU	Stone, Eric A.	$32,717			X	HE	UNC - UNC Chapel Hill (National Institutes of Health (NIH))	Integration of Genomics and Transcriptomics in Normal Twins and Major Depression	The goal of the parent grant is to understand the genomics of transcription in major depressive disorder (MDD) in humans and to develop biomarkers that correlate with disease state. The first specific aim is to characterize gene expression and genome wide single nucleotide polymorphism and copy number variation in peripheral blood leucocytes of normal individuals from the Netherlands Twin Registry. From these data, we will assess heritabilities of transcript variation, and perform a genome wide	9/30/2009	8/31/2010	93.701	5-30502
NCSU	Luo, Hong	$31,137			X	ET	New Mexico State University (National Science Foundation)	Development of Hybrid Gaskinetic Schemes for Complex Flows with Multi-Scales and	To accurately and efficiently compute complex gas flows with multi-scales and multiple-physics is a very challenging task requiring significant computing resources. Hence, new computation schemes are preferred. For example, hypersonic flows around an entry vehicle can experience full range of	8/17/2009	8/16/2012	47.082	Q01397
NCSU	Kelly, Robert M.	$30,485			X	HE, OE	National Institutes of Health (NIH)	Graduate Training in Molecular Biotechnology at NC State	Training in molecular biotechnology is essential for an expanding list of disciplines that have found modern biology-based skills of critical importance in pursuing research goals in areas ranging from biochemistry to chemical engineering to plant biology. Recognizing this, NC State University has created a core education facility that serves campus-wide needs for graduate students requiring laboratory-based training in aspects of	9/1/2009	8/31/2010	93.701	3 T32 GM008776-10S1
NCSU	Parsons, Gregory N.	$29,677			X	ET, HE	Alditri Technologies (National Science Foundation)	Surface Modification of Fibrous Structures For Advanced Filtration Applications	Our work in the Department of Chemical and Biomolecular Engineering at NC State University will focus on developing fundamental insight into chemical mechanisms for well defined conformal atomic-scale coatings and surface modifications on complex engineered and natural fiber-based structures.	7/1/2009	12/31/2009	47.082	2009-1018
NCSU	Agris, Paul F.	$13,934			X	ET, HE, OE	National Institutes of Health (NIH)	Modified Nucleoside Structure-Function Relations: tRNA	Some 30-40 million people are living with Human immunodeficiency virus, HIV. Other retroviruses account for many more infections, and emerging infectious diseases are on the rise. Unfortunately, antiretroviral resistance develops in the presence of the selective pressure of drug exposure. Vaccine development has been problematic. A novel, validated target of intervention for retrovirus infection is the virus? dependence on the recruitment of a specific host cell transfer RNA (tRNA). The host tRNA is recruited by viral proteins into the new viral particles. When the virus infects the very next cell, this tRNA becomes the primer for replication of its RNA genome through reverse transcription. Recently, small proteins, peptides of 15 and 16 amino acids, have been selected from vast libraries of peptides for their abilities to bind specifically the one human tRNA, tRNALys3, that is recruited by HIV, and other lentiviruses for priming reverse transcription. Thus, the peptides mimic HIV viral proteins in their specificity for tRNALys3. The long-term objectives of this program are to understand and exploit the dedicated recruitment of human tRNALys3 by HIV, and to develop peptides as tools for designing new small molecule	8/14/2009	7/31/2010	93.701	2-R01-GM023037-23A1 REVISED
NCSU	Tonkonogy, Susan L.	$5,820			X	HE, OE	UNC - UNC Chapel Hill (National Institutes of Health (NIH))	Center For Gastrointestinal Biology and Disease	Funds are being requested to purchase an isolator to house germ-free mice. Dr. Tonkonogy will not be able to purchase an autoclave ($53,000) as originally requested due to lack of appropriate space. Both the original and revised budgets are for equipment only.	7/25/2009	5/31/2010	93.866	5-30507

$28,137,280

Stimulus Award Tracking

UNC Tomorrow legend: GR = Global Readiness, **AC** = Access to HE, **K12** = Public Education, **ET** = Economic Transformation, **HE** = Health, **EV** = Environment, **OE** = Outreach and Engagement

				Status									
Campus	PI	Amount Awarded	Prelim. Notice	Prop.	Award	UNCT Code	Sponsor	Title	Summary	Begin Date	End Date	CFDA#	Federal Award #
UNCA	Dennison	472,103			x	GR	NSF	RUI: A Multi-University Study of Radip Variations and Transient Events at Radio Frequencies	RUI: A Multi-University Study of Radip Variations and Transient Events at Radio Frequencies	9/1/2009	8/31/2012		AST-0908266
UNCA		$ 628,665			x	GR	NSF	MRI: Acquisition of Emission Moessbauer Facility with Cryomagnet for Study fo Novel Materials	MRI: Acquisition of Emission Moessbauer Facility with Cryomagnet for Study fo Novel Materials	10/1/2009	9/30/2012	47.082	DMR-0922735

1,100,768.00

Stimulus Award Tracking

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Campus	PI	Amount Awarded	Prop.	elim. Noti	Award	UNCT Code	Sponsor	Title	Summary	Begin Date	End Date	CFDA#	Federal Award nu
UNC-CH	Meyer,	$17,500,000.00			x	EV	US Department of	UNC-CH EFRC: Solar Fuels	The UNC-CH EFRC will investigate and elucidate	8/1/2009	7/31/2014	81.049	DE-SC0001011
UNC-CH	Roper,	$14,567,188.00			x	ET	National Institutes	UNC Animal facilities	This grant application requests funding to	12/1/2009	3/31/2014	93.702	RR029912-01
UNC-CH	Bacon,	$13,569,169.00			x	HE	Office of Public	American Recovery and	Under the leadership of the North Carolina	2/8/2010	2/7/2014	93.718	90RC0008/01
UNC-CH	Sullivan,	$3,370,853.00			x	HE	National Institutes	Integration of Genomics &	This application is a grand opportunity ARRA	9/30/2009	9/29/2011	93.701	MH089951-01
UNC-CH	Eron, Joseph	$3,036,786.00			x	HE	National Institute	University of North	This is an administrative supplement to the 064	8/1/2009	7/31/2011	93.701	03S1
UNC-CH	Villena,	$2,985,994.00			x	EV	National Institutes	An interdisciplinary	private abstract	9/1/2009	8/31/2011	93.701	MH090338-01
UNC-CH	Reichart,	$1,795,854.00			x	GR	National Science	ARRA - MRI-R2	We are proposing three targeted expansions of	1/1/2010	12/31/2012	47.082	AST-0959447
UNC-CH	Sparling, P	$1,462,023.00			x	GR	National Institute	Southeast Regional	The Southeast Regional Center of Excellence for	6/15/2009	6/14/2011	93.701	07S1
UNC-CH	Earp, H	$1,456,998.00			x	HE	National Cancer	SPORE in Breast Cancer -	The Carolina Breast Cancer Study (CBCS) was	8/1/2009	7/31/2011	93.701	CA058223-17S1
UNC-CH	Margolis,	$1,354,537.00			x	HE	National Institute	Innovative therapies to	No one with HIV infection has been cured,	3/1/2009	2/28/2011	93.701	01
UNC-CH	Hoeflich,	$1,000,000.00			x	K12	National Science	GRADUATE RESEARCH	private abstract	8/1/2009	7/31/2014	47.082	DGE-0946821
UNC-CH	Heiss,	$980,581.00			x	HE	National Center	PAGE: Genetic	The successes of genome-wide association	8/5/2009	8/31/2011	93.701	HG004803-02S1
UNC-CH	Minion,	$870,478.00			x	EV	National Science	FRG:Advanced Algorithms	The numerical modeling of the dynamics of	7/1/2009	6/30/2012	47.082	DMS-0854961
UNC-CH	Peden, David	$852,000.00			x	EV	National Institute	Immunobiology of Acute	The focus of this U19 project, "Immunobiology	7/1/2009	6/30/2011	93.701	02S2
UNC-CH	Manocha,	$848,503.00			x	GR	National Science	Peta-Flops Acoustic	The objective of this proposal is to develop new	8/1/2009	7/31/2012	47.082	OCI-0904990
UNC-CH	Searles, Lillie	$812,867.00			x	EV	National Science	Control of PremRNA	RNA quality control systems (QC) are important	9/1/2009	8/31/2012	47.082	MCB-0923746
UNC-CH	Samulski,	$810,937.00			x	HE	National Institutes	Differential regulation of	Differential regulation of multiple transgenes	7/1/2009	6/30/2011	93.701	01
UNC-CH	Giddings,	$800,000.00			x	HE	National Center	Generating and Managing	The first human genome sequence was	9/26/2009	6/30/2011	93.701	HG005591-01
UNC-CH	Tropsha,	$730,789.00			x	HE	National Institutes	PREDICTIVE QSAR	The development of highly efficient and	9/30/2009	9/29/2011	93.701	GM066940-
UNC-CH	Foshee,	$728,299.00			x	HE	National Institute	ARRA - Genetic by context	Genetic by context influence on trajectories of	6/1/2009	5/31/2011	93.701	HD057222-01A1
UNC-CH	Zhou, Otto	$727,581.00			x	HE	National Institutes	ARRA - Nanotechnology	Microbeam radiation therapy (MRT) is a	9/30/2009	9/29/2011	93.701	CA148487-01
UNC-CH	Egan,	$722,679.00			x	HE	National Institutes	CTRIP Ex-vivo perfusion	Description and Subprojects: This Stage 1 GO	10/1/2009	9/30/2011	93.701	HL101641-01
UNC-CH	Mitchell,	$675,000.00			x	EV	National Science	Predicting disease risk	Intellectual merit: Two current frontiers in	9/1/2009	8/31/2013	47.082	DEB-0923671
UNC-CH	Juliano,	$650,000.00			x	HE	National Institutes	Carolina Center of Cancer	The Carolina Center of Cancer Nanotechnology	9/1/2009	8/31/2011	93.701	CA119343-05S2
UNC-CH	Lieb, Jason	$649,313.00			x	EV	National Center	Identification of DNA	The purpose of this grant is to initiate projects	6/1/2009	5/31/2011	93.701	HG004270-03S1
UNC-CH	Deshmukh,	$635,419.00			x	HE	National Institutes	Mechanisms of Increasing	Post-mitotic cells such as neurons must strictly	9/1/2009	8/31/2011	93.701	NS042197-08S1
UNC-CH	Tidwell,	$630,518.00			x	HE	National Science	L1 Interactions in Retino-	Intellectual merits of the proposed activity.	6/1/2009	5/31/2112	47.082	IOS-0923667
UNC-CH	Tarantino,	$629,484.00			x	HE	National Institute	Organismal and Genetic	The devastating effects of drug addiction on the	9/1/2009	8/31/2011	93.701	DA023690-01A2
UNC-CH	Hazlett,	$622,099.00			x	HE	National Institute	A Longitudinal MRI Study	This application “A Longitudinal MRI Study of	9/30/2009	8/31/2011	93.701	HD059854-01A1
UNC-CH	Earp, H	$615,426.00			x	HE	National Institutes	Early Stage Investigator	The ARRA RFA-OD-09-005 provides an	9/30/2009	9/30/2011	93.701	CA147893-01
UNC-CH	Corbie-	$600,000.00			x	OE	National Center on	ARRA - A Participatory	This is a proposal requesting an administrative	9/1/2009	8/31/2011	93.701	MD001671-
UNC-CH	Reiter,	$574,477.00			x	GR	National Science	TC: Large: Collaborative	Private	9/15/2009	8/31/2014	47.082	CNS-0910483
UNC-CH	Pisano, Etta	$568,156.00			x	OE	National Institutes	Community leadership	There is a growing recognition that	9/30/2009	9/29/2011	93.701	RR025747-02S1

UNC-CH	Burch,	$561,396.00			x	EV	National Science	Competition and the	Evolutionary biologists have long regarded	7/15/2009	6/30/2013	47.082	DEB-0922111
UNC-CH	Blancafort,	$540,890.00			x	HE	National Cancer	Re-activation of maspin	There is a need in cancer therapeutics to	7/1/2009	6/30/2011	93.701	CA125273-03S1
UNC-CH	Coleman,	$510,182.00			x	HE	National Institutes	Acyl CoA: Synthetase	Increased use of acyl-CoAs in downstream	6/1/2009	5/31/2011	93.701	DK059935-08S1
UNC-CH	Trotman,	$508,512.00			x	HE	National Institutes	Function and Form	This application is in response to NOT-OD-09-	10/1/2009	12/31/2010	93.701	DE013814-08S1
UNC-CH	Koller,	$500,000.00			x	HE	National Institutes	Contribution of Cis-acting	Differences in gene expression patterns	9/30/2009	9/29/2011	93.701	MH088612-01
UNC-CH	Randell,	$500,000.00			x	HE	National Institutes	Micro RNA Regulation of	This application addresses the broad challenge	9/30/2009	9/29/2011	93.701	HL100108-01
UNC-CH	Shen,	$500,000.00			x	HE	National Institutes	Neonatal Brain	At UNC-Chapel Hill, with a special environment	9/30/2009	9/29/2010	93.701	MH088520-01
UNC-CH	Guo, Guang	$499,996.00			x	OE	National Institutes	Genetic/Epigenetic	This application addresses broad challenge area	8/1/2009	7/31/2011	93.701	DA029425-01
UNC-CH	Superfine,	$498,209.00			x	EV	National Institute	ARRA - Computational and	ARRA - Computational and Cell Culture Models	9/30/2009	8/31/2011	93.701	01
UNC-CH	Magnuson,	$497,937.00			x	HE	National Institutes	Albino Deletion Complex	A subset of both the mouse and human	12/1/2009	11/30/2011	93.701	HD024462-22
UNC-CH	Damania,	$497,807.00			x	HE	National Institutes	Development of Novel	HIV infection is a worldwide health issue	9/30/2009	9/29/2011	93.701	CA149024-01
UNC-CH	Garcia-	$494,098.00			x	HE	National Institute	Implementation of a	There is significant inter-individual variability to	6/1/2010	5/31/2011	93.701	05S1
UNC-CH	Lord, Susan	$493,798.00			x	HE	National Institutes	Defining Residues Critical	Epidemiological studies have linked fibrinogen	7/1/2009	6/30/2011	93.701	HL031048-22A1
UNC-CH	Peden, David	$483,996.00			x	HE	National Institutes	Investigating gene x	This NIEHS challenge grant is written in	10/1/2009	9/30/2011	93.701	01
UNC-CH	Ostrowski,	$483,795.00			x	HE	National Institutes	Pilot Studies of Gene	The long-term goal of this research is to	9/30/2009	9/29/2010	93.701	HL100810-01
UNC-CH	Campbell,	$475,984.00			x	OE	National Institutes	HOPE Accounts for	This application addresses broad Challenge	9/30/2009	9/29/2011	93.701	MD004447-01
UNC-CH	Anton, Eva	$470,848.00			x	HE	National Institutes	Defining of	This application addresses broad Challenge	10/1/2009	9/30/2011	93.701	MH088753-01
UNC-CH	Piven,	$463,653.00			x	HE	National Institute	UNC Developmental	(NOT-OD-09-056) and Notice Title: NIH	9/30/2009	9/29/2011	93.701	HD003110-42S1
UNC-CH	Sulik,	$458,019.00			x	HE	National Institute	Advancing Diffusion	Refinements of Procedures for Diffusion Tensor	9/30/2009	9/30/2011	93.701	AA019211-01
UNC-CH	Styblo,	$457,994.00			x	EV	National Institutes	Environmental Arsenic	This is an apllication for an ARRA Administrative	11/1/2009	10/31/2011	93.701	MH066034-
UNC-CH	Nonini,	$457,220.00			x	OE	National Science	One Movement or Two?	THIS PROJECT ENGAGES IN ETHNOGRAPHIC	9/1/2009	2/29/2012	47.082	BCS-0922229
UNC-CH	Kaufman,	$449,189.00			x	HE	National Institutes	Confocal Laser Scanning	The purpose of this proposal is to purchase a	4/1/2009	3/31/2010	93.701	RR025579-01
UNC-CH	Zeisel, Susan	$447,492.00			x	K12	National Science	The Longitudinal	This research examines the development of	9/15/2009	8/31/2013	47.082	BCS-0843865
UNC-CH	Jones,	$440,676.00			x	EV	National Science	Collaborative Proposal:	The conventional wisdom among biologists is	9/1/2009	8/31/2012	47.082	MCB-0920196
UNC-CH	Wilson,	$439,409.00			x	HE	National Institute	Androgen receptor	Melanoma antigen gene protein-A11 (MAGE-	9/1/2009	8/31/2010	93.701	HD016910-27
UNC-CH	Frye,	$434,195.00			x	EV	National Institutes	Discovery of Small	Statement of the Challenge Area and the	9/30/2009	9/29/2011	93.701	GM090732-01
UNC-CH	Hopfinger,	$433,792.00			x	HE	National Institutes	Selective Attention and	Mechanisms of attention are critical for	5/1/2009	4/30/2011	93.701	MH066034-
UNC-CH	Rimer,	$425,055.00			x	K12	Health Resources	The UNC Public Health	I. SUMMARY OF PROJECT Project Title: The	9/1/2009	8/31/2012	93.405	01
UNC-CH	Ataga,	$407,386.00			x	HE	National Institutes	COAGULATION	As a result of the presence of macrovascular	7/1/2009	6/30/2011	93.701	HL094592-01A1
UNC-CH	Choudhary,	$404,479.00			x	HE	National Institutes	Modeling HIV-1	Persistent HIV infection of memory CD4+ T cells	4/1/2009	3/31/2011	93.701	01A1
UNC-CH	Hedrick,	$404,300.00			x	EV	National Science	Robusticity and	The intellectual merit of this project lies in its	8/1/2009	7/31/2012	47.082	IOS-0920358
UNC-CH	Whang,	$396,640.00			x	HE	National Institutes	Regulation of androgen	Prostate cancer is the third leading cause of	7/1/2009	6/30/2011	93.701	CA120921-02S1
UNC-CH	Herfarth,	$388,089.00			x	HE	National Institute	Methotrexate response in	Patients with active ulcerative colitis (UC)	7/1/2009	6/30/2010	93.701	DK084511-01
UNC-CH	Ibrahim,	$384,746.00			x	K12	National Cancer	Inference in Regression	In this proposal, we propose Bayesian and	8/1/2009	7/31/2011	93.701	CA074015-11A1
UNC-CH	Staats,	$376,264.00			x	GR	National Science	VOSS: Collaborative	Many knowledge-based organizations depend	9/15/2009	8/31/2012	47.082	OCI-0943210
UNC-CH	Swenberg,	$373,974.00			x	EV	National Institute	ARRA - UNC-CH Center for	This AARA Administrative Supplement is	7/1/2009	6/30/2011	93.701	09S1
UNC-CH	Koller,	$370,000.00			x	HE	National Institutes	GST alleles and oxidant	It is generally acknowledged that the etiology of	7/1/2009	6/30/2011	93.701	HL098941-01
UNC-CH	Mack,	$370,000.00			x	HE	National Heart	Molecular regulation of	Vascular smooth muscle cell (SMC)	7/1/2009	6/30/2011	93.701	HL082883-01A2
UNC-CH	Magnuson,	$370,000.00			x	EV	National Institute	SWI/SNF & Yolk Sac	private	8/1/2009	7/31/2011	93.701	HD058341-01A1
UNC-CH	Frelinger,	$369,896.00			x	HE	National Institute	Targeting CD8+ T Cells to	Type 1 diabetes (T1D) is a tissue specific	7/1/2009	6/30/2011	93.701	06

UNC-CH	Crews,	$368,701.00			x	HE	National Institute	Molecular Genetics of	Glia perform a variety of important roles in	9/1/2009	8/31/2011	93.701	NS064264-01A1
UNC-CH	Kawula,	$367,801.00			x	HE	National Institutes	Francisella tularensis	Francisella tularensis is a zoonotic bacterial	4/1/2009	3/31/2014	93.701	01A2
UNC-CH	Miller,	$367,558.00			x	HE	National Institute	ROLE OF YAPS IN Y. PESTIS	Yersinia pestis is a Gram-negative bacterial	5/15/2009	4/30/2010	93.701	01
UNC-CH	Kawula,	$363,985.00			x	HE	National Institutes	Francisella tularensis	Francisella tularensis is an extremely virulent	5/1/2009	4/30/2010	93.701	01
UNC-CH	Johnson,	$363,186.00			x	HE	National Institutes	Receptor Interaction with	An administrative supplement for NIH grant	6/1/2009	5/31/2011	93.701	GM030324-
UNC-CH	Desimone, J	$361,926.00			x	HE	National Heart	ARRA - Biomimetic	The need to develop safe and effective	7/1/2009	6/30/2010	93.701	HL092814-01
UNC-CH	Carpenter,	$361,821.00			x	AC	National Institute	ARRA - Clinical Study of	A. Scope of the Overall Project and Anticipated	6/1/2009	5/31/2011	93.701	DK074059-05S2
UNC-CH	Carson,	$360,382.00			x	HE	National Institutes	Validation of a Mortality	Many patients who survive the first few days of	7/1/2009	2/28/2011	93.701	HL094975-01A1
UNC-CH	Girdler,	$355,608.00			x	OE	National Institutes	Stress Responses,	African Americans (AA) are at risk for clinical	9/1/2009	8/31/2011	93.701	DA013705-05A2
UNC-CH	Su, Lishan	$352,192.00			x	HE	National Institutes	HIV-1 Replication and	The goals of this project are to define how HIV-	7/1/2009	6/30/2013	93.701	01A2
UNC-CH	Xiong, Yue	$348,264.00			x	HE	National Institutes	The Physiological Function	This application is in response to NIH	8/1/2009	7/31/2011	93.701	CA068377-13S2
UNC-CH	Sikich,	$346,499.00			x	HE	National Institutes	Intensive Brain Training in	This R34 pilot proposal, entitled “Intensive	6/1/2009	5/31/2011	93.701	MH085088-01
UNC-CH	Hussey, Jon	$344,329.00			x	OE	National Institute	ARRA - Socioeconomic	In the United States, large and persistent health	9/30/2009	8/31/2011	93.701	HD057073-01A2
UNC-CH	Paine, Mary	$342,592.00			x	HE	National Institute	Mechanisms Underlying	Supplemental support is requested to build	5/1/2009	2/28/2011	93.701	GM077482-
UNC-CH	Styblo,	$340,472.00			x	HE	National Institutes	Metabolism and Toxicity	N/a	9/1/2009	8/31/2011	93.701	06A1
UNC-CH	Swenberg,	$337,815.00			x	EV	National Institute	ARRA - Adducts as	N/a	8/1/2009	7/31/2011	93.701	05S2
UNC-CH	Campbell,	$335,334.00			x	K12	National Institutes	Does Enhanced School-	Number RFA-OD-09-003 NIH Challenge Grants	9/30/2009	9/29/2011	93.701	MD004344-01
UNC-CH	Erie, Dorothy	$332,663.00			x	EV	National Institutes	ARRA - Mechanistic	The overall goal of this proposal is to elucidate	7/1/2009	6/30/2011	93.701	GM080294-
UNC-CH	Welch,	$320,502.00			x	GR	US Department of	Advanced Kalman Filter	Complex engineering systems pose	9/15/2009	9/14/2012	81.049	DE-SC0002271
UNC-CH	Baranek,	$315,122.00			x	HE	National Institutes	Sensory Experiences in	This administrative supplement is requested to	7/1/2009	6/30/2011	93.701	HD042168-06S1
UNC-CH	Griffith, Jack	$310,074.00			x	HE	National Institutes	Instrumentation for	Examination of the 3 dimensional structure of	4/1/2009	3/31/2010	93.701	RR025456-01
UNC-CH	Weissman,	$307,100.00			x	HE	National Institutes	SWI/SNF complex loss	Epigenetic changes in gene expression play an	7/17/2009	6/30/2011	93.701	CA138841-01
UNC-CH	Earp, H	$306,531.00			x	HE	National Cancer	Ack1: Activation and	Prostate cancer, the most common male	6/4/2009	5/31/2011	93.701	CA120304-01A2
UNC-CH	Earp, H	$306,496.00			x	HE	National Institutes	Ack1: Activation and	Prostate cancer, the most common male	6/1/2010	5/31/2011	93.701	CA120304-01-
UNC-CH	Wagner, Lara	$302,505.00			x	EV	National Science	Collaborative Research:	The broad goal of this proposal is to improve	1/1/2010	12/31/2014	47.082	EAR-0844186
UNC-CH	Smith,	$301,957.00			x	HE	National Institutes	ARRA - Effect of Male	As an administrative supplement for the	7/1/2009	6/30/2011	93.701	CA114773-05S2
UNC-CH	Emch,	$301,183.00			x	AC	National Science	Integration of Spatial and	This project will develop and test spatial	9/1/2009	2/29/2012	47.082	BCS-0924479
UNC-CH	Perou,	$300,000.00			x	HE	National Institutes	Cancer Genome	Cancer is a disease of dysregulated	8/1/2009	7/31/2011	93.701	CA126544-03S1
UNC-CH	Zeisel,	$300,000.00			x	AC	National Institute	ARRA - UNC Clinical	N/a	9/1/2009	8/31/2010	93.701	DK056350-09S1
UNC-CH	Sandler,	$298,017.00			x	HE	National Institute	CENTER FOR	The mission of the Center for Gastrointestinal	9/1/2009	8/31/2011	93.701	DK034987-24S1
UNC-CH	Pisano, Etta	$297,338.00			x	HE	National Institutes	NCRR ARRA Supplement -	The focus of this proposed supplement is to	9/30/2009	9/29/2011	93.701	RR025747-02S2
UNC-CH	Allbritton,	$296,000.00			x	HE	National Institutes	ARRA - Rapid Genetic	The production of murine models by means of	7/1/2009	6/30/2011	93.701	HG004843-01S1
UNC-CH	Lysle, Donald	$296,000.00			x	HE	National Institute	Neural Mechanisms of	There is high incidence of bacterial, viral, and	8/1/2009	7/31/2011	93.701	DA025667-01A2
UNC-CH	Samulski,	$296,000.00			x	HE	National Institutes	AAV Gene Therapy for	N/a	7/1/2009	6/30/2011	93.701	DK084033-01
UNC-CH	Doherty,	$292,617.00			x	OE	National Institute	The nexus of drugs, sex	Two phenomena observed in North Carolina	4/1/2009	3/31/2011	93.701	DA026737-01
UNC-CH	Dokholyan,	$288,334.00			x	HE	National Institute	Protein Misfolding and	The anti-oxidant enzyme Cu,Zn superoxide	7/1/2009	6/30/2011	93.701	GM080742-
UNC-CH	Thomas,	$287,571.00			x	HE	National Institutes	Melanoma RAS/BRAF	This Request for an Administrative Supplement	10/1/2009	9/30/2011	93.701	CA112243-05S1
UNC-CH	Bar-On, Dorit	$282,396.00			x	K12	National Science	Collaborative Research:	Project Summary: Expression, Communication	8/1/2009	7/31/2012	47.082	SES-0925896
UNC-CH	Campbell,	$281,806.00			x	HE	National Institutes	Redox Regulation of the	Rho-like GTPases are important players in	7/1/2009	6/30/2013	93.701	CA089614-06A1
UNC-CH	Erie, Dorothy	$281,625.00			x	EV	National Institute	Structure-Function Studies	A major focus of parent grant is to use atomic	8/30/2009	6/30/2011	93.701	GM079480-

UNC-CH	Sandler,	$280,050.00			x	HE	National Cancer	Inflammation, Obesity and	Colorectal cancer (CRC) is common in the	9/30/2009	9/29/2011	93.701	CA044684-18S2
UNC-CH	Payne, Brian	$280,000.00			x	OE	National Science	Optimizing Implicit	The goal of this project is to develop an	9/15/2009	8/31/2012	47.082	SES-0924252
UNC-CH	Cook,	$271,604.00			x	HE	National Institute	Replication licensing and	Precise duplication of the entire human	7/1/2009	6/30/2011	93.701	R01GM083024-
UNC-CH	Weissman,	$268,981.00			x	HE	National Institutes	Role of hsnf5/BAF47 Loss	The identification of tumor suppressor genes	7/17/2009	6/30/2011	93.701	CA091048-05A2
UNC-CH	Sekelsky, Jeff	$264,320.00			x	HE	National Institute	Mechanisms of Mitotic	Mitotic crossing over is detrimental because it	9/1/2009	8/31/2011	93.701	GM088606-01
UNC-CH	Weiner,	$261,811.00			x	OE	National Cancer	Implementing Systemic	To support the NCI's efforts to increase clinical	8/1/2009	5/31/2011	93.701	CA124402-03S1
UNC-CH	Dichter,	$258,981.00			x	HE	National Institutes	Emotion-Modulated	The framework of this proposal is that the	7/1/2009	6/30/2011	93.701	MH085254-
UNC-CH	Giddings,	$249,709.00			x	EV	National Center	Software to Identify Post-	Post-translational modifications on proteins	9/1/2009	8/31/2011	93.701	RR020823-05S1
UNC-CH	Stevens,	$246,813.00			x	OE	National Institutes	ARRA - Weight-Related	This application addresses broad Challenge	9/30/2009	9/29/2011	93.701	HL099429-01
UNC-CH	Matson,	$246,753.00			x	EV	National Institutes	ARRU - Enzymatic	DNA helicases provide the primary mechanism	4/1/2009	3/30/2011	93.701	GM033476-
UNC-CH	Magnuson,	$246,555.00			x	HE	National Center	A Carolina Center to	The rapid generation of genetically engineered	6/1/2009	5/31/2011	93.701	RR014817-10S1
UNC-CH	Pignone,	$246,367.00			x	AC	National Heart	ARRA - Health Literacy and	Patients with low literacy may require more	7/1/2009	5/31/2011	93.701	HL081257-03S2
UNC-CH	Raab-Traub,	$245,036.00			x	HE	National Institutes	Herpes Oncogenesis,	The goal of Projects 3 and 5 of the Virology	4/1/2009	3/31/2010	93.701	CA019014-31S1
UNC-CH	Doyle,	$238,848.00			x	EV	National Science	Collaborative Research:	The use of market mechanisms in	9/1/2009	2/28/2013	47.082	BCS-0909056
UNC-CH	Lin, Danyu	$236,483.00			x	OE	National Cancer	Statistical Methods in	The broad, long-term objectives of this research	7/1/2009	6/30/2011	93.701	CA082659-11S1
UNC-CH	Tzima, Eleni	$236,032.00			x	HE	National Heart	Endothelial cell junctions	Shear stress, the frictional force due to blood	7/1/2009	6/30/2011	93.701	HL088632-02S1
UNC-CH	Lin, Weili	$224,557.00			x	HE	National Institute	MR Measured Oxygen	The ability to delineate brain tissue viability	9/30/2009	9/29/2011	93.701	NS054079-04S1
UNC-CH	Xu, Zhelong	$223,791.00			x	HE	National Institutes	Effect of Adenosine A2	N/a	6/1/2009	7/31/2011	93.701	HL083362-03S1
UNC-CH	Robinson,	$222,000.00			x	OE	National Institute	Habits and cues in alcohol	The parent R01 grant investigates	9/30/2009	9/29/2011	93.701	AA018008-02S1
UNC-CH	Swenberg,	$222,000.00			x	K12	National Institutes	ARRA -SBRP:	The UNC-CH Superfund Basic Reserach Program	7/1/2009	6/30/2011	93.701	17S2
UNC-CH	Swenberg,	$221,994.00			x	K12	National Institutes	ARRA -SBRP:	The UNC-CH Superfund Basic Reserach Program	7/1/2009	6/30/2011	93.701	17S1
UNC-CH	Shanahan,	$221,875.00			x	OE	National Institute	Antisocial Behavior,	The goal of this research is to integrate genetic	5/13/2009	4/30/2011	93.701	HD050261-01A2
UNC-CH	Yamauchi, M	$221,875.00			x	HE	National Institutes	Lysyl Oxidase Control of	This project will investigate if Lysyl oxidase	7/1/2009	6/30/2010	93.701	DE019569-01
UNC-CH	Asokan, A	$219,040.00			x	HE	National Institutes	Determinants of AAV Lung	Goals of the parent R01 are to define viral	7/1/2009	6/30/2011	93.701	HL089221-
UNC-CH	Ke,	$217,542.00			x	HE	National Institute	Substrate specificity and	Cyclic nucleotide phosphodiesterases (PDEs)	8/1/2009	7/31/2010	93.701	GM059791-
UNC-CH	Su, Lishan	$216,218.00			x	EV	National Institutes	Pathogenesis of HCV in a	This project extends our long-standing interests	7/1/2009	6/30/2011	93.701	01A1
UNC-CH	Heise, Mark	$215,469.00			x	HE	National Institutes	Togavirus Tropism for	Alphaviruses such as Ross River virus (RRV) and	9/1/2009	8/31/2011	93.701	AR047190-08S1
UNC-CH	Swenberg,	$215,195.00			x	K12	National Institutes	ARRA -SBRP:	The UNC-CH Superfund Basic Reserach Program	7/1/2009	6/30/2011	93.701	17S3
UNC-CH	Weeks,	$213,629.00			x	EV	National Institutes	Retroviral Genomic RNA	The overarching vision of this administrative	7/1/2009	6/30/2011	93.701	GM064803-
UNC-CH	Gilmore,	$213,224.00			x	HE	National Institutes	Early Brain Development	Brain development in the first two years of life	9/1/2009	6/30/2011	93.701	HD053000-03S1
UNC-CH	Gilmore,	$207,456.00			x	OE	National Institutes	Prospective Studies of the	Schizophrenia is believed to arise from	8/1/2009	7/31/2011	93.701	MH064065-
UNC-CH	French,	$205,373.00			x	HE	National Institute	Molecular Regulation in	In our recent work on the original aims of U54	9/1/2009	8/31/2011	93.701	HD035041-13S1
UNC-CH	Carter,	$205,056.00			x	EV	National Institute	Sense/Antisense Genetic	We have constructed, stabilized expression for,	6/1/2009	5/31/2011	93.701	GM078227-
UNC-CH	Harden, T	$204,165.00			x	HE	National Institute	P2Y-Purinergic Receptors -	Nucleotides and nucleotide sugars act as	9/30/2009	8/31/2011	93.701	GM038213-
UNC-CH	Su, Lishan	$200,550.00			x	EV	National Institute	Ethanol and HBV Infection	Private	9/5/2009	8/31/2011	93.701	AA018372-01
UNC-CH	Smithies,	$199,800.00			x	HE	National Institutes	Renal Processing of	The current most widely accepted view of how	7/1/2009	6/30/2011	93.701	DK080302-01A1
UNC-CH	Peterson,	$197,803.00			x	K12	National Science	REU Site Proposal:	As the primary institution contributing the	9/15/2009	8/31/2011	47.082	OCE-0851854
UNC-CH	Sandler,	$194,985.00			x	HE	National Institute	Inflammation, obesity and	The parent project is designed to evaluate local	6/1/2009	5/31/2011	93.701	CA044684-18S1
UNC-CH	Miller,	$190,598.00			x	OE	National Institutes	Initiative for Minority	N/a	6/1/2009	3/31/2010	93.701	GM055336-
UNC-CH	Cyr, Douglas	$186,745.00			x	EV	National Institute	Detection of folding	90% of CF cases result from a mutation which	6/1/2009	5/31/2011	93.701	GM056981-

UNC-CH	Dangl,	$185,039.00			x	EV	National Institutes	Genetics of Programmed	Plants, like all higher eukaryotes, must control	8/1/2009	7/31/2011	93.701	GM057171-
UNC-CH	Bencharit, S	$185,000.00			x	HE	National Institutes	Role of Programmed Cell	Understanding and manipulating complex	12/1/2009	11/30/2011	93.701	HL092338-01
UNC-CH	Otey, Carol	$184,942.00			x	EV	National Institutes	Molecular Function of	Actin filaments are structural elements of the	9/1/2009	8/31/2011	93.701	GM081505-
UNC-CH	Dykstra	$182,624.00			x	K12	National Institutes	ARRA - Seeding	The SPIRE (Seeding Postdoctoral Innovators in	9/1/2009	8/31/2011	93.701	GM000678-
UNC-CH	Shanahan,	$182,500.00			x	OE	National Institute	Antisocial Behavior,	Antisocial Behavior, Genetics, & the Life Course	5/1/2010	4/30/2011	93.701	HD050261-01-
UNC-CH	Wightman, R	$177,600.00			x	EV	National Institute	ARRA - Dynamics of in vivo	Neurotransmitters are secreted by neurons and	9/30/2009	9/29/2010	93.701	DA010900-12S1
UNC-CH	Snider,	$175,414.00			x	HE	National Institutes	RAF/MEK/ERK Regulation	Funds are requested to accelerate work on	6/1/2009	3/31/2011	93.701	NS031768-16S1
UNC-CH	Adimora,	$172,800.00			x	K12	Fogarty	AIDS International	This post doctoral scientist application is for Dr.	9/1/2009	8/31/2011	93.701	3-D43-
UNC-CH	Pickles,	$171,006.00			x	HE	National Heart	CFTR Delivery to Ciliated	Gene transfer strategies for cystic fibrosis (CF)	7/1/2009	6/30/2011	93.701	HL077844-04S1
UNC-CH	Lee, Kuo-	$167,684.00			x	HE	National Institute	Modified Triterpines as	Prior studies on the natural triterpene betulinic	9/12/2009	8/31/2011	93.701	02S1
UNC-CH	Matera,	$167,022.00			x	HE	National Institute	Biogenesis of Small	This application is to request an NIGMS	6/1/2009	5/31/2011	93.701	GM053034-
UNC-CH	Swanstrom,	$166,110.00			x	HE	National Institute	Biological Properties of	I am submitting a Recovery Act Administrative	4/1/2009	3/31/2011	93.701	09S1
UNC-CH	Jin, Suk-Won	$165,992.00			x	HE	National Institutes	Endothelial lineage	Recent advances in cell culture studies provide	7/15/2009	6/30/2011	93.701	HL090960-
UNC-CH	Bapat, Navin	$162,656.00			x	GR	National Science	Collaborative Research:	N/a	8/1/2009	7/31/2012	47.082	SES-0921264
UNC-CH	Marzluff,	$162,630.00			x	EV	National Institute	Phosphorylation	We request an NIGMS Administrative	8/1/2009	7/31/2011	93.701	GM076660-
UNC-CH	Daaleman,	$156,753.00			x	OE	National Institute	A Feasibility Study to	Participatory and patient-centered interactions	8/15/2009	7/31/2011	93.701	AG030166-01A2
UNC-CH	Schoenfisch,	$150,063.00			x	EV	National Institutes	ARRA - Nitric Oxide-	This request for an Administrative Research	7/1/2009	6/30/2011	93.701	EB000708-07S1
UNC-CH	Narayan,	$150,000.00			x	OE	National Science	International Research	We propose the development of a	7/15/2009	6/30/2012	47.082	OISE-0936110
UNC-CH	Boucher,	$148,000.00			x	HE	National Institute	Molecular Therapy Core	The UNC NIDDK-sponsored Molecular	8/1/2009	7/31/2011	93.701	DK065988-06S1
UNC-CH	Stearns, Sally	$147,547.00			x	OE	National Institute	ARRA - Acute Coronary	This administrative supplement will investigate	7/1/2009	6/30/2010	93.701	AG025801-03S1
UNC-CH	Narayan,	$145,594.00			x	HE	National Institutes	Autonomous Treatment of	One emerging option for autonomous	7/1/2009	6/30/2011	93.701	DA026980-01
UNC-CH	Serody,	$136,719.00			x	HE	National Institute	Treg Migration in GVHD	: Graft versus host disease (GVHD) is the major	7/1/2009	6/30/2010	93.701	05S1
UNC-CH	Zajac, David	$134,380.00			x	HE	National Institute	ARRA - Speech of Young	The purpose of this administrative supplement	9/30/2009	9/29/2011	93.701	HD044935-07S1
UNC-CH	Forest, M	$130,450.00			x	EV	National Science	Collaborative Research on	The projects in this proposal are to develop	7/1/2009	6/30/2012	47.082	DMS-0908423
UNC-CH	Becker-	$127,262.00			x	HE	Fogarty	Effect of Rotavirus	IRSDA BECKER ABSTRACT Candidate: Sylvia	10/1/2009	9/30/2013	93.701	TW008401-01
UNC-CH	Tisch, Roland	$125,159.00			x	HE	National Institute	The Role of MerTK in	Type 1 diabetes (T1D) is an autoimmune	10/1/2009	2/28/2011	93.701	04S1
UNC-CH	Glazner,	$121,988.00			x	EV	National Science	Acquisition of an X-ray	We request funds to acquire an X-ray	8/15/2009	7/31/2010	47.082	EAR-0842167
UNC-CH	Burridge,	$118,400.00			x	HE	National Institute	Cell Adhesion and the	Previously we showed that cadherin	#########	11/30/2010	93.701	GM029860-
UNC-CH	Caron,	$117,876.00			x	HE	National Institute	Adrenomedullin Signaling	Plasma levels of the angiogenic peptide	10/1/2009	9/30/2011	93.701	HD060860-01S1
UNC-CH	Ahmed,	$116,102.00			x	HE	National Institutes	Genetic Analysis of Germ	This application is to request an NIGMS	8/1/2009	7/31/2011	93.701	GM083048-
UNC-CH	Elston,	$112,779.00			x	K12	National Institute	UNC Predoctoral Training	This application requests continued support for	8/3/2009	7/31/2010	93.701	GM067553-
UNC-CH	Campbell,	$111,000.00			x	EV	National Institute	Role of the Tail Domain in	This proposal is focused on vinculin, a	9/1/2009	8/31/2011	93.701	GM081764-
UNC-CH	Eron, Joseph	$110,263.00			x	HE	National Institute	University of North	Treated and suppressed in Acute HIV Infection	1/1/2010	11/30/2010	93.701	04S1
UNC-CH	Manis, Paul	$109,964.00			x	HE	National Institute	Cellular Mechanisms of	This is a supplement request to accelerate our	6/1/2009	5/31/2011	93.701	DC004551-09S1
UNC-CH	Vilen,	$109,145.00			x	HE	National Institutes	The Role of Dendritic Cells	The innate immune response is inherently	5/1/2009	4/30/2011	93.701	02S1
UNC-CH	Bentley,	$108,000.00			x	OE	Fogarty	ARRA - UNC Framework	Through its Framework Program in Global	8/1/2009	7/31/2011	93.701	TW007493-
UNC-CH	Johnson,	$103,812.00			x	HE	National Institutes	Function of MEKK3 and its	Supplementary funds for NIH grant GM68820	5/1/2009	7/31/2009	93.701	GM068820-
UNC-CH	Cusack,	$103,474.00			x	HE	National Institutes	PTSD and Dual Disorders	This application for a Recovery Act	7/1/2009	6/30/2011	93.701	MH079343-
UNC-CH	Mayer-Davis,	$101,824.00			x	HE	National Institutes	ARRA - Nutrition and	This proposal is for an Administrative	10/1/2009	3/31/2010	93.701	DK077949-03S1
UNC-CH	Johnson,	$101,370.00			x	HE	National Institutes	Regulation of Sequential	Supplementary funds for NIH grant DK37871	6/1/2009	5/31/2011	93.701	DK037871-28S1

UNC-CH	Pomp,	$101,364.00			x	EV	National Institutes	Genetic Architecture of	Exercise induces metabolic changes including	7/1/2009	6/30/2010	93.701	DK076050-03S1
UNC-CH	Marzluff,	$101,133.00			x	HE	National Institute	Control of Histone mRNA	This application is to request an NIGMS	7/1/2009	6/30/2011	93.701	GM029832-
UNC-CH	Zeisel,	$100,001.00			x	HE	National Institute	ARRA - Human	N/a	9/1/2009	8/31/2011	93.701	DK055865-08S2
UNC-CH	Goldstein,	$100,000.00			x	EV	National Institutes	ARRA - Mechanisms of C.	This application is to request an NIGMS	8/1/2009	7/31/2011	93.701	GM083071-
UNC-CH	Mohlke,	$99,996.00			x	HE	National Institute	GENETIC EPIDEMIOLOGY	Obesity is a major cause of morbidity and	7/1/2009	6/30/2010	93.701	DK078150-03S1
UNC-CH	Salmon,	$99,132.00			x	EV	National Institutes	ARRA - Mechanisms of	The major focus of this grant is spindle,	9/1/2009	8/31/2011	93.701	GM024364-
UNC-CH	Lentz, Barry	$98,849.00			x	HE	National Institutes	Microstructural	This is a proposal for funds to purchase two	7/1/2009	6/30/2010	93.701	GM032707-
UNC-CH	Lewis,	$98,275.00			x	HE	National Institutes	Colon Cancer Screening	With funds received from the Recovery Act	9/1/2009	8/31/2011	93.701	CA104128-05S1
UNC-CH	Orlando, Roy	$97,853.00			x	HE	National Institute	Esophageal	The long term goal of this proposal is to	9/1/2009	8/31/2011	93.701	DK036013-22S1
UNC-CH	Lee, Andrew	$97,556.00			x	HE	National Institute	Dynamic Networks and	This is a request for supplemental funds to	7/1/2009	3/31/2010	93.701	GM066009-
UNC-CH	Kornegay,	$95,000.00			x	HE	National Institute	National Center for Canine	The National Center for Canine Models of DMD	12/1/2009	11/30/2011	93.701	NS059696-
UNC-CH	Whitehead,	$91,324.00			x	HE	National Institute	Psychophysiology of	This application for an administrative	5/1/2009	4/30/2011	93.701	DK031369-
UNC-CH	Peifer, Mark	$81,611.00			x	EV	National Institutes	ARRA - Cell adhesion,	The coordination of cell adhesion and	6/1/2009	5/31/2010	93.701	GM047857-
UNC-CH	Jacobson,	$80,000.00			x	HE	National Institute	Structure and dynamics of	In this administrative supplement request, we	7/1/2009	6/30/2011	93.701	GM041402-
UNC-CH	Cohen,	$78,440.00			x	HE	National Institute	HIV in Semen-Effects of	In this request for a supplement we propose to	7/1/2009	6/30/2011	93.701	DK049381-14S1
UNC-CH	Grose, John	$76,190.00			x	HE	National Institutes	Complex Sound Analysis In	This application is a supplement to a parent	7/17/2009	8/31/2009	93.701	DC001507-
UNC-CH	Sondek, John	$74,990.00			x	HE	National Institute	Functions and regulation	Our NIH-funded grant (R01-GM062299)	6/1/2009	9/30/2009	93.701	GM062299-
UNC-CH	Lamantia,	$74,431.00			x	HE	National Institute	Regional Differentiation	We request supplemental support for our	8/1/2009	11/30/2010	93.701	HD029178-15S1
UNC-CH	Peifer, Mark	$72,710.00			x	HE	National Institutes	A model system to study	We established a model system to study APC	9/1/2009	8/31/2010	93.701	GM067236-
UNC-CH	Bourret,	$71,009.00			x	K12	National Institute	Molecular Mechanisms of	A supplement is requested for two years	9/1/2009	8/31/2011	93.701	GM050860-
UNC-CH	Church,	$62,447.00			x	HE	National Institute	p16INK4a, Senescence and	Thrombosis is a major cause of morbidity and	9/1/2009	8/31/2010	93.701	AG031068-02S1
UNC-CH	O'Brien,	$59,341.00			x	HE	National Institute	Developing Selective	Glycolysis is essential for sperm energy	9/1/2009	8/31/2011	93.701	HD060481-01S1
UNC-CH	Kafri, Tal	$53,636.00			x	EV	National Institutes	Episomal lenti vectors for	The supplement funding to 2 RO1 DK058702-06	8/1/2009	7/31/2011	93.701	DK058702-08S1
UNC-CH	Dekaney,	$52,400.00			x	HE	National Institute	The Role of FGFR1 and	Following damage, the intestinal epithelium	7/1/2009	6/30/2011	93.701	DK078733-
UNC-CH	Samulski,	$52,295.00			x	HE	National Institutes	Senator Paul D. Welstone	GET FROM TARA AND JUDE	10/1/2009	9/30/2011	93.701	AR056953-02S1
UNC-CH	Damania,	$51,710.00			x	HE	National Institute	FELLOW:WEST, JOHN-	N/a	10/1/2008	9/30/2009	93.701	01A1
UNC-CH	Magness,	$51,189.00			x	HE	National Institute	Intestinal Stem/progenitor	The gastrointestinal epithelium is one of the	9/1/2009	8/31/2010	93.701	DK080181-02S2
UNC-CH	Bloom, Kerry	$50,345.00			x	EV	National Institutes	ARRA - Structure and	Accurate segregation of duplicated	7/1/2009	6/30/2011	93.701	GM032238-
UNC-CH	Ting, Jenny	$50,054.00			x	HE	National Institute	NLR Regulation of Innate	N/a	9/1/2009	8/31/2010	93.701	01
UNC-CH	Earp, H	$49,753.00			x	HE	National Cancer	Cancer Center Core	This administrative supplement to the UNC	9/1/2009	8/31/2011	93.701	CA016086-34S3
UNC-CH	Heise, Mark	$47,210.00			x	HE	National Institute	Investigating host genetic	The outcome of viral infection results from	9/30/2009	9/29/2011	93.701	01
UNC-CH	Adimora,	$41,449.00			x	HE	Fogarty	AIDS International	This application is submitted in response to the	9/1/2009	8/31/2011	93.701	TW001039-
UNC-CH	Nicholas,	$40,743.00			x	K12	National Institute	Predoctoral Training in	private abstract	9/1/2009	8/31/2010	93.701	GM007040-
UNC-CH	Ringel-Kulka,	$39,832.00			x	ET	National Institutes	ARRA - Community	This administrative supplement will accelerate	7/1/2009	3/31/2010	93.701	HD057815-02S1
UNC-CH	Manis, Paul	$39,749.00			x	HE	National Institute	Physiology of Dorsal	This is a supplement request to accelerate our	6/1/2009	5/31/2010	93.701	DC000425-22S1
UNC-CH	Robinson,	$36,508.00			x	OE	National Institute	Habits and cues in alcohol	This is an administrative supplement	6/1/2009	8/31/2010	93.701	AA018008-01S1
UNC-CH	Mohlke,	$30,780.00			x	HE	National Institute	Targeted Genetic Analysis	Type 2 diabetes (T2D) is a major cause of	10/1/2009	6/30/2010	93.701	DK072193-05S1
UNC-CH	Giddings,	$30,458.00			x	HE	National Institute	Agent-based modeling of	Caries, periodontal disease, disfigurement,	5/5/2009	5/4/2011	93.701	DE019594-01
UNC-CH	Bloom, Kerry	$30,000.00			X	HE	National Institutes	Structure and Function of	Accurate segregation of duplicated	5/1/2010	4/30/2010	93.701	GM032238-
UNC-CH	Whitehurst,	$28,214.00			x	HE	National Cancer	Harnessing Functional	The goal of this supplement request is to	6/1/2009	8/31/2009	93.701	CA128926-02S1

UNC-CH	Berkowitz,	$27,414.00			x	HE	National Institute	A molecular dynamics	Neurodegenerative disorders are a major cause	5/5/2009	5/4/2011	93.701	AG032819-01A1
UNC-CH	Hines, Ian	$27,000.00			x	HE	National Institute	Involvement of natural	Hepatic fibrosis represents an important	9/1/2009	8/31/2010	93.701	AA016563-03S1
UNC-CH	Mershini,	$25,000.00			x	EV	National Science	Beyond LambdaCDM:	N/a	7/15/2009	6/30/2010	47.082	PHY-0903410
UNC-CH	Spagnoli,	$21,000.00			x	HE	National Institutes	TGF-Beta and IGF in	The supplemental funds will be directed at	5/1/2009	3/31/2011	93.701	DK070929-05S1
UNC-CH	Patterson,	$20,733.00			x	HE	National Institutes	Signaling in endothelial	N/a	6/1/2009	8/31/2010	93.701	HL061656-11S1
UNC-CH	Everett, Eric	$18,333.00			x	HE	National Institutes	Genetic Determinants of	The supplement will be used to support	6/2/2009	6/30/2011	93.701	DE018104-
UNC-CH	Plevy, Scott	$18,008.00			x	HE	National Institute	Macrophage Gene	Experiments proposed in this application will	7/17/2009	6/30/2011	93.701	DK054452-07S1
UNC-CH	Tilley,	$17,154.00			x	HE	National Heart	Role of Adenosine in	Abstract: Adesoine has become increasingly	5/12/2009	7/31/2010	93.701	HL071802-
UNC-CH	Samulski,	$15,396.00			x	HE	National Institutes	CTL response to AAV	Aims of the parent R01 project hinge on	5/15/2010	8/15/2010	93.701	01A2S1
UNC-CH	Entwisle,	$11,247.00			x	K12	National Institutes	ARRA - Carolina	The Carolina Population Center (CPC) at the	6/1/2009	5/31/2011	93.701	HD050924-04S1
UNC-CH	Asokan, A	$7,649.00			x	HE	National Institutes	Determinants of AAV Lung	Aims of the parent PPG project hinge on	6/15/2009	8/15/2010	93.701	HL089221-
UNC-CH	Liu, Jian	$7,459.00			x	HE	National Institutes	STRUCTURAL SPECIFICITY	Heparan sulfate is a highly sulfated	5/17/2010	8/13/2010	93.701	09S1
UNC-CH	Hayashi,	$7,400.00			x	HE	National Institute	Adult to Adult Living	The Liver Transplant Program at the University	9/1/2009	8/31/2010	93.701	DK062505-07S1
UNC-CH	Samulski,	$7,212.00			x	HE	National Institutes	Rational and	Aims of the parent PPG project hinge on	6/15/2009	8/15/2010	93.701	02S1
UNC-CH	Perrin, Eliana	$7,126.00			x	AC	National Institute	Learning How to Keep	The overarching hypothesis of the parent grant	6/1/2009	10/31/2009	93.701	HD051817-03S1
UNC-CH	Fitzpatrick,	$6,048.00			x	HE	National Institutes	The Inferior Colliculus as a	In the last few decades, electrical stimulation of	6/1/2009	7/31/2009	93.701	DC009475-

$126,572,608.00

Stimulus Award Tracking

UNC Tomorrow legend: GR = Global Readiness, **AC** = Access to HE, **K12** = Public Education, **ET** = Economic Transformation, **HE** = Health, **EV** = Environment, **OE** = Outreach and Engagement

				Status										
Campus	PI	Amount Requested	Amount Awarded	Prelim. Notice	Prop.	Award	UNCT Code	Sponsor	Title	Summary	Begin Date	End Date	CFDA#	Award #
UNC Charlotte	UNC Charlotte	ZhengChang Su	$ 1,202,998		e-IPF 2009-0080	X	Other	NSF	Annotating the Cis-Regulatory Binding Sites in Sequenced Prokaryotic Genomes	our general understanding of them in most sequenced genomes is very limited due to the lack of efficient and accurate experimental and computational methods for their characterization, which has largely hindered our understanding of many important fundamental biological processes. With more and more genomes sequenced, there is an urgent need from the biology community for efficient and accurate computational tools to predict cis-regulatory binding sites in all sequenced genomes, as well as databases that store the predicted cis-regulatory binding sites and relevant information, to facilitate the community's effort to decipher cis-regulatory codes in sequenced	9/1/2009	8/31/2013	47.082	EF-0849615
UNC Charlotte	UNC Charlotte	Jun-tao-Guo	$ 765,392	IPF 09-0036		X		NSF	CAREER: A Structure-Based Approach to Transcription Factor-binding Site Prediction via Protein-DNA Docking	protein-DNA interactions at the structural-level can provide insights into the mechanisms of gene regulation and can guide the design of novel therapeutic molecules. The goal of this project is to develop computational methods and resources for modeling protein-DNA interactions and predicting transcription factor (TF) binding sites on a genomic scale. More specifically, this project focuses on structural aspects of protein-DNA interactions and aims to address two related questions: 1) given a 3-dimensional complex structure of a transcription factor and a DNA sequence, can we accurately evaluate the binding affinity and specificity between the transcription factor and candidate sequences? 2) In those cases where the protein-DNA complex structure is not available, can we build a reliable protein-DNA interaction model via predictive protein-DNA docking methods? The proposed research work has five specific aims: 1) to construct a comprehensive protein-DNA complex structure database and benchmark sets for knowledge-based potential development and protein-DNA docking performance testing; 2) to develop novel knowledge-based potentials for studying protein-DNA interactions; 3) to develop an efficient two-stage protein-DNA docking algorithm at two different resolution levels, first at a coarse-level using the powerful Wang-Landau algorithm followed by refinement at atomic level ; 4) to develop structure-based methods for genome-scale transcription factor binding site prediction using protein-DNA complex models;	7/15/2009	6/30/2014	47.082	DBI-0844749
UNC Charlotte	UNC Charlotte	Celine Latulipe	$ 762,372		IPF 09-0139	X		NSF	Dance.Draw: Embodiment as Input for Collaborative, Creative Expression	Dance.Draw: Embodiment as input for interactive, Collaborative Expression We propose to study lightweight embodiment as an input for collaborative creative interaction, specifically applied to the domain of dance. Our team of technologists, choreographer and artist will work together to define an evolving system that assists in the design and production of interactive dance performances. The Dance.Draw system will allow the motion of the dancers, tracked through small RF transmitters worn in satin cuffs, to act as input that can be flexibly applied to control interactive visualizations. The system will log dancer's motions and will be able to composite video of the dancers with different visualizations, allowing post-hoc analysis of the choreography and exploration of mappings between the motion and the projected media. This will allow the choreographer to explore interactive dance without always having a full cast of dancers present. In addition, it will allow other stakeholders, such as artists and musicians, to experiment offline with their media and adjust how it interplays with the choreography. In addition to using the dancers' movement on stage and the motion of their bodies in place, we plan to allow the Dance.Draw system to use input	7/1/2009	6/30/2012	47.082	IIS-0855882

UNC Charlotte	UNC Charlotte	Tiffany Barnes	$ 646,982	IPF 09-0048		X		NSF	CAREER: Educational Data Mining for Student Support in Interactive Learning Environments	This project will investigate the use of educational data mining to provide student support in interactive learning environments. To achieve this goal, this research seeks to leverage student data to: 1) derive cognitive models, 2) assess what students know, 3) provide hints and guidance, and 4) inform educators. This study will comprise empirical evaluation and system building, as well as investigation into related fundamental challenges in cognitive science, computer science education, and interactive learning environments research. The first research goal, to automatically construct cognitive models of learning using data, is necessary for adapting learning environments to individual students. Our goal is to construct models that predict learning and transfer. The second and related goal, is to build the constructed cognitive models into our systems and use them to assess what students know, as a prerequisite for choosing what hints and guidance to provide to students, and for assessing when transfer might occur. The third goal is to intelligently decide how to leverage past data to provide current students with hints, and guidance, for instance, by warning a student when they take a step that often leads to errors, or revealing a frequent past attempt when a students asks for a hint. Our goal is to optimize learning gain and transfer. The fourth goal is to inform educators through providing them with interactive tools to visualize and analyze student data. We hypothesize that these tools will help other instructors, as they have helped us, to make informed and targeted improvements to instruction. Broader impacts: The success of this research will enable the fast construction of intelligent tutoring systems where data is available from previously constructed interactive learning environments in STEM. This has the potential to make individualized learning support accessible for a broad audience, from children to adults. Individualization of instruction and teacher visualization tools may particularly impact those students that are traditionally underrepresented in STEM fields. The technology to individualize	7/1/2009	6/30/2014	47.082	IIS-0845997
UNC Charlotte	UNC Charlotte	Dennis Livesay	$ 474,288		e-IPF 09-0547	X	HE	DHHS/NIH/NCRR	High Performance Computing in Computational Biology	The Bioinformatics Research Center (BRC), together with the University Research Computing (URC) support group, at the University of North Carolina at Charlotte (UNC Charlotte) is requesting a high performance computing resource in support of numerous NIH-funded projects in computational biology. The resource will provide expanded computing access to support an array of computational biology efforts, including projects in protein stability/flexibility relationships, molecular dynamics, protein electrostatics, RNA secondary structure prediction, and digital processing of biological images. All of these efforts are intensely compute-intensive, and will be substantially advanced by access to the resource, which is cost-prohibitive and difficult to justify for individual projects. Specifically, this proposal requests 76 nodes with dual Intel Xeon quad-core processors and 16 GB of DIMMS RAM. In total, the cluster includes 608 computing cores, 1.2 TB RAM (2 GB per core), 56 TB of usable disk storage, and gigabit Ethernet interconnect with separate paths for data and parallel communication. The resource will be completely maintained by URC (which currently manages several other research clusters on campus), and will be stored in dedicated server space within the new BRC building, which has been constructed to unify the campus' efforts in bioinformatics and computational biology. As such, the resource will provide an extensive increase in computational resources at UNC Charlotte that will substantially advance our institution's goals	4/1/2010	3/31/2011	93.701	1S10RR026514-01
UNC Charlotte	UNC Charlotte	Jennifer Webb	$ 451,795		e-IPF 10-0221		HE	DHHS/NIH	Biopsychosocial determinants of weight gain in Black first-year college women	The Healthy Campus 2010 national public health campaign mobilized promising scientific initiatives seeking to both document and improve the health status of U.S. college students. A key epidemiological finding that emerged indicated that national trends in ethnic minority health disparities in obesity [i.e. a body mass index (BMI) > 30.0 kg/m2] are mirrored in the college student population. As such, Black female college students evidence an excess point prevalence of	4/1/2010	3/31/2013	93.701	1R15DK088949-01
UNC Charlotte	UNC Charlotte	Yuri Nesmelov	$ 405,468		e-IPF 10-0211		HE	DHHS/NIH/NIAMS	The Mechanism of Myosin ATPase Actin Activation	Interaction of actin and myosin is the basis of muscle contraction and force generation in muscle, as well as the basis of cellular motion and intracellular traffic. In myosin II, actin binding initiates the powerstroke, a single force-generating event, when myosin changes its conformation and propels actin filament relative to thick filament in muscle or transfers cargo along actin cytoskeleton in cells. Acto-myosin interaction modulates myosin ATPase activity, enhancing the rate of ATP hydrolysis products release. The goal of this project is to determine the mechanism of myosin ATPase actin activation. We hypothesize that the powerstroke is regulated by actin via modulation of the relay	4/1/2010	3/31/2013	93.701	1R15AR059621-01

UNC Charlotte	UNC Charlotte	Martin Ribarsky	$ 399,995	e-IPF 09-0659		X		NIJ	Semi-Automated 3D Geo-coding of Large Urban Structures for Deployment of Effective Emergency Response and Communication	The goal of this proposal is to develop new tools for 3D geo-coding technology for use in large urban buildings. 3D geo-coding of large urban structures has the potential to provide critical information and improved communication capabilities during an emergency. By treating buildings as three dimensional structures (2 Doors connected by stairways, elevators) connected to the street network, this project provides a seamless extension of existing emergency infrastructure to interiors of buildings, where more precise information is necessary for effective response. This project has the following objectives: 1) Starting from building CAD files, construct a 3D network of the building geometry (rooms, hallways, elevators, stairways, entrances, exits). 2) Build a exible and portable server/client infrastructure that supports applications across desktop and mobile device platforms. 3) Design intelligent and highly scalable data processing	9/1/2009	8/31/2011	16.804	2009-SQ-B9-K009
UNC Charlotte	UNC Charlotte	Larissa R. Brunner Huber	$ 396,000	IPF 08-0397		X	HE	DHHS/NIH/NICHD	Fertility and Oral Contraceptive use Study (FOCUS)	Oral contraceptives (OCs) are the most popular reversible method of contraception in the US. Although most women using OCs experience reliable protection against pregnancy, nearly half of the 3 million unintended pregnancies in the US annually occur among the 90% of women who use contraception. While lack of adherence to OCs has been assumed to be the primary cause of OC failure, recent findings suggest that obesity may reduce the biological effectiveness of OCs. Prior studies, while provocative, relied upon self-reported height and weight, and were limited in their ability to control for important confounding factors such as adherence to an optimal OC regimen and frequency of sexual intercourse. Also, data on patterns of OC use and whether demographic, lifestyle, or reproductive characteristics are associated with OC discontinuation are limited. These patterns of use are likely to be important to future studies of unintended pregnancy. We propose a 2-year, prospective cohort pilot study, the Fertility and Oral Contraceptive Use Study (FOCUS), with the overall goal of examining methodological issues related to the successful implementation of a large, prospective cohort study to investigate the role of obesity in OC failure. Participants will be	5/1/2009	4/30/2011	93.701	1R21HD056173-01A2
UNC Charlotte	UNC Charlotte	James R. Cook	$ 396,000	IPF 08-0561		X	HE	DHHS/NIH/NIMH	Using a Community Based Participatory Research Approach to Examine Family Support	The long-range objectives of this project are to improve family functioning and reduce disparities in mental health services and outcomes through the development of a sustainable research partnership among family support providers and university researchers. Building upn existing partnerships among community agencies and university faculty in a developing System of Care (SOC) for children with severe emotional disturbance (SED) and their families and for families in the child welfare system, this project will build the capacity of family support programs to collect and manage data, enabling research to document the impact of family support activities. This research	6/2/2009	5/31/2011	93.701	1R21MH083088-01A1
UNC Charlotte	UNC Charlotte	Jonathan Bird	$ 349,134		e-IPF 2009-0471	X	Other	NSF	Development of a Low Cost Form of Maglev Transportation Using Electrodynamic Wheels	The objective of this research is to optimize, build and control a scale model of a low cost, high efficiency, maglev vehicle. The maglev vehicle developed will create the necessary suspension, thrust and lateral guidance forces via the electromechanical rotation of Halbach rotors, or electrodynamic wheels, over a flat passive aluminum guideway. The simultaneous suspension and thrust forces are created by the induced eddy current in the guideway, whilst lateral re-centering	9/1/2009	8/31/2012	47.082	ECCS-0925941
UNC Charlotte	UNC Charlotte	Christine Richardson	$ 253,473	IPF 08-0539		X	HE	DHHS/NIH/NCI	Etiology of translocations in hematopoietic cells	The long-term objective of my research is to understand the influence of hematopoietic-specific developmental programs on the repair DNA damage such as double strand breaks (DSBs) and the initial molecular events that lead to translocations, which are a hallmark of leukemia, lymphoma, and soft-tissue sarcomas. DSBs are highly recombinogenic, increasing the exchange of information between two homologous DNA duplexes by several orders of magnitude; thus, mammalian cells are potentially at risk for rearrangements arising during DSB repair. Chromosomal DSBs result following exposure to irradiation, alkylating agents, and topoisomerase II (topoII) inhibitors that are common therapies in the treatment of human cancers. Treatment regimens that include the topoII inhibitor etoposide are associated with one class of therapy-related acute myeloid leukemia (t-AML) and chromosomal translocations involving the mixed lineage leukemia (MLL) gene on chromosome	7/1/2009	6/30/2010	93.701	2R01CA100159-05A1

UNC Charlotte	UNC Charlotte	Inna Sokolova	$ 250,000		e-IPF 2009-0365	X	Other	NSF	LiT: Interactive Effects of Multiple Environmental Stressors on Mitochondrial Metabolism and Bioenergetics in a Model Marine Ectotherm, Crassostrea Virginica	Estuarine and intertidal organisms, such as mollusks, are exposed to a high degree of environmental stress, including fluctuations of temperature, salinity, oxygen content, pH and exposure to pollutants. With the current pace of environmental change often being too fast for evolutionary adaptation to occur, the stress tolerance mechanisms of marine organisms must be flexible if they are to survive. Knowledge of these mechanisms is crucial for understanding the factors limiting their distribution in the face of multiple stressors. This project focuses on the role of metabolic regulation and mitochondrial function in stress tolerance. The research goals of this project are: 1) to uncover fundamental physiological and molecular mechanisms of combined action of elevated temperature, trace metal cadmium (Cd) and intermittent anoxia on metabolism of mollusks using eastern oysters Crassostrea virginica as a model organism; 2) to understand the role of mitochondrial responses and aerobic/anaerobic transitions in cellular and whole-organism bioenergetics of C. virginica during intermittent anoxia combined with Cd or temperature stress; 3) to provide training and research involvement opportunities to undergraduate and graduate students, K-12 students and a post-doc, including women and underrepresented minorities.	8/1/2009	7/31/2011	47.082	IOS-0921367
UNC Charlotte	UNC Charlotte	Constance Martin	$ 208,450		e-IPF 2010-0068	X	AC	NC Dept of Commerce thru Charlotte-Mecklenburg Workforce Development	University Workforce Development Certificate Programs and Assistance Board	UNC Charlotte will deliver four graduate-credit and/or Continuing Education certificate programs in a condensed, accelerated format to suit the circumstances of professionals being displaced from their jobs as a result of the current economic downturn. Certificates to be delivered will be selected in collaboration with the three regional Workforce Development Boards. A special career module will be designed to be offered in conjunction with each certificate. A Workforce Development Program Manager in the Office of Continuing Education, Extension, and Summer	8/1/2009	12/31/2010	TBD	
UNC Charlotte	UNC Charlotte	Heather Smith	$ 169,998		e-IPF 09-0753	X	HE	DHHS/NIH through Carolinas Medical Center	A Community-Based Participatory Approach to Improving Hispanic Health	participatory research to develop test interventions designed to improve health outcomes for the Hispanic community members in the city of Charlotte, NC. The long-term goal of this proposal is to reduce health disparities for Hispanic community members. This goal will be accomplished by the completion of the following specific aims: Aim 1: To use principles of community-based participatory research to plan an intervention that impacts health outcomes for a specific disease or condition identified by the community. Aim 2: To implement and evaluate the effectiveness of the intervention designed in Aim 1 using principles of community-based participatory research. Aim 3: To evaluate CBPR partnership effectiveness and degree of community engagement throughout the	12/7/2009	12/8/2009	93.701	Prime Award #1R24MD004930-01
UNC Charlotte	UNC Charlotte	George McAllister	$ 166,983		e-IPF 09-0757	X	ET	NC Dept of Commerce through SBTDC	ARRA Charlotte Region	This project receives funding from the North Carolina State Office of the Small Business & Technology Development Center (SBTDC) to operate the Southern Piedmont Regional Service Center of SBTDC. Federal funding is available through the NC DOC, Division of Workforce Development with ARRA Funds to fund two 12 month time limited positions.	6/1/2009	6/30/2010	17.260	2010-0070-01
UNC Charlotte	UNC Charlotte	Yu Wang	$ 149,991	e-IPF 09-0315		X		NSF	NeTS: Small: Collaborative Research: an Integrated Environment-Independent Approach to Topology Control in Wireless Ad Hoc Networks	Each node in a wireless ad hoc network can choose the power at which it makes its transmissions and thus control the topology of the network by choosing the set of other nodes in its neighborhood it will communicate with. Though well-studied in the research literature, the problem of topology control has been largely considered only in idealized wireless environments and in isolation as a graph-theoretic abstraction. This proposal describes a comprehensive research agenda focusing on an integrated approach that does not merely abstract out the problem of	8/1/2009	7/31/2012	47.082	CNS-0915331
UNC Charlotte	UNC Charlotte	George McAllister	$ 148,392		e-IPF 10-0576	X	ET	Dept of Labor through SBTDC	ARRA - Biz Boost for Charlotte Region	This project receives funding from the North Carolina State Office of the Small Business & Technology Development Center (SBTDC) to operate the Southern Piedmont Regional Service Center of SBTDC. Federal funding is available through the NC DOC, Division of Workforce Development with ARRA Funds to fund two 12 month time limited positions.	7/1/2009	8/31/2010	17.260	2009-2588-01
UNC Charlotte	UNC Charlotte	Mark Clemens	$ 103,313		e-IPF 09-0600	X	HE	DHHS/NIH/NIDDK	Regulation of sinusoidal perfusion in shock	Administrative Supplement Request on current R01 - This request will provide funding for personnel and supplies to accelerate the pace of discovery within the scope of the already funded grant DK38201. Specifically, the funds will be used to pursue promising findings in the area of integrated interaction of gaseous mediators and the role of cytoskeletal mechanisms in regulating nitric oxide synthase.	9/21/2009	11/30/2010	93.701	3R01DK038201-21S2

UNC Charlotte	UNC Charlotte	Donald Jacobs	$ 102,125		e-IPF 10-0460	X	GR	DHHS/NIH/NIGMS	Predicting Protein Flexibility and Stability (supplement)	This research focuses on development of a unique new approach for modeling protein thermodynamic and mechanical properties, which is expected to overcome many of the hurdles limiting the success of current computational protein design and computer-aided drug design efforts.	3/30/2010	2/28/2011	93.701	3R01GM073082-04S2
UNC Charlotte	UNC Charlotte	Jiang Jiancheng	$ 99,999	IPF 09-0239		X	ET	NSF	Quantile Regression for Multivariate Time Series Models with Functional Coeffecients	The aim of this proposal is to develop quantile regression (QR) modeling theory of multivariate time series data with multivariate exogeneous variables by advancing several multivariate functional-coefficient models. It is well known that the QR theory has been well established for univariate time series. However, for multivariate time series there is little work on QR in the literature. In this proposal the PI works on the multivariate threshold models and the proposed multivariate functional-coefficient time series models using the spatial QR and solves a number of problems including variable selection and hypothesis testing that arise in practice, when there are many parameters. The proposed modeling approaches open a prosperous avenue of research in the multivariate nonlinear realm. From the theoretical perspective, this proposal explores some new semi-and non-parametric modeling methods to handle multivariate nonlinear time series data and to provide asymptotic results for the proposed estimators and test statistics. Empirically, the applications of the proposed modeling techniques would lead to robust and efficient results. The findings of this project will contribute to the theory and practice of statistics and econometrics in many important aspects. The proposed methodology will be particularly attractive in QR settings and should greatly expand the scope of inference currently described in the statistics and	7/15/2009	6/30/2012	47.082	DMS-0906482

Stimulus Award Tracking

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Campus	PI	Amount Awarded	Prelim. Notice	Prop.	JIT	Award	UNCT Code	Sponsor	Title	Summary	Begin Date	End Date	CFDA#	Award Number
UNCG	Stan Faeth	$615,971				X	EV	NSF	The ecological consequences of hybridization of asexual microbial symbionts	This research addresses a fundamental component of community ecology – how do species interactions vary geographically and temporally and what are the ecological and evolutionary consequences? While basic in nature, the research has broader impacts for disease ecology, conservation biology, restoration of native grasslands, and rangeland management and provides broad collegiate and K-12 educational opportunities.	8/1/2009	7/31/2013		917741
UNCG	Rick Bunch	$259,692				X	ET	Rural Economic Development Center, Inc.	Mobile and fixed Wireless Propagation Modeling for the State of North Carolina	Radio wave propagation models for existing mobile and fixed wireless broadband will be conducted to identify unserved and underserved regions in the State of North Carolina. The model will use high spatial resolution (up to 3-meters) Digital Elevation	12/1/2009	11/30/2010	11.558	37-50-M09002
UNCG	Raleigh Bailey, Ph.D.	$223,186				x	OE	Corp. for Nat'l and Comm. Svce.	AmeriCorps Community Collaborative	This project will concentrate resources into designated immigrant and refugee neighborhoods in Guilford County in order to provide employment training, and tutoring and literacy training. AmeriCorps members and community volunteers will be trained to provide ESOP, interpretation, tutoring and	6/1/2009	5/31/2010		
UNCG	Paul Knapp	$160,002				X	EV	NSF	Collaborative Research: Radial Growth Responses among Naturally-Occurring Western U.S. Conifers under Changing Environmental Conditions	This study is designed to examine the radial growth responses of two co-occurring and economically important western USA conifers growing under natural conditions in a warmer, drier, and increasingly CO2- rich atmosphere. Radial growth rates of Douglas-fir (DF) and ponderosa pine (PP) trees will be compared at nine sites in the Northern Rockies, USA where the trees are co-dominant, confounding growth factors are minimized, and between-site environmental variability is maximized.	7/1/2009	12/31/2012	47.082	851081

UNCG	Sandra Shultz	$155,102				x	HE	National Institute of Arthritis and Musculoskeletal and Skin Diseases	Hormone Mediated Knee Joint Laxity and Neuromechanics	The purpose of this administrative supplement is to 1) identify through advance statistical methods individual laxity profiles (comprised of AKL, GR, GJL and IER and VV laxity values) and individual knee joint biomechanical profiles (comprised of joint motions and forces during the drop landing and single leg perturbation) and determine the laxity profile(s) that are most predictive of at risk knee joint biomechanical profile(s), and 2) better understand the underlying factors leading to laxity profiles identified in Objective 1.	9/18/2009	9/17/2010	93.701, 93.702	
UNCG	Nicholas Oberlies	93018				X		University of North Carolina at Chapel Hill (UNC-CH)	Mechanisms underlying drug-diet interactions	The lack of routine consideration of interactions between drugs and dietary substances is largely due to the paucity of knowledge concerning specific foods or components that can modulate drug disposition and, ultimately, drug response.	7/17/2009	2/28/2011	93.701	5-30084
UNCG	Cheryl Buehler and Marion O'Brien	139500				X	ET	US DHHS NIH NICHD	Mother's Part-Time Employment	1R03HD055968-01A2: The proposed study examines the relation between maternal part-time employment, as compared with both full-time work an d not being employed, and mother's psychological well-being and parental role functioning during three periods of	5/8/2009	4/30/2010 yr 1	93.701	1R03HD055968-01A2
UNCG	Bei Wu	59,288.00				X	HE, GR	US DHHS NIH National Institute for Dental and craniofacial Research (NIDCR)	Oral Health Disparities among Elders with and without Cognitive Impairment: Supplement	This project aims to assess the relationship of cognitive impairment with declining oral health among older adults.			93.701	3R21DE016970-03S1
UNCG	Michael McIntosh	$39,000				X	HE	DHHS NIH NIDDKD	NIDDK Administrative Supplement to DK063070: Determine the Role of CaMKII, JNK, and PLC in 10,12 CLA-Mediated Inflammation, Insulin resistance, and Delipidation in Human Adipocytes	This Administrative Supplement supports the purchase of supplies and energy-efficient equipment (1- -86C UltraFreezer to replace 30 yr old broken freezer & 2- CO2 cell culture incubators with decontamination capabilities and to replace existing incubators with microbial contamination problems) to accelerate the completion of the studies proposed in the Supplement Aim.	12/17/2009	2/28/2010	93.701	DK063070-07S2

UNCG	Michael McIntosh	$ 19,656				x	AC	US DHHS NIH NIDDKD	NIDDK Summer Research Experience Supplement to DK063070: Undergraduate Student Experiential Learning in Adipocyte Biology and Nutrition Research	Funds are requested to hire an undergraduate student majoring in biology, chemistry, or nutrition to learn about conducting research in the area of adipose biology and nutrition. The objective of this summer supplement is to provide the student with a "hands on" research experience related to the development or treatment of obesity and its metabolic complications using primary human adipocytes. Specifically, the student will be assigned to work on one of the three specific aims of the parent grant.	5/15/2009	5/14/2011	93.701 93.702	
UNCG	Sandra Shultz					x	HE	National Institute of Arthritis and Musculoskeletal and Skin Diseases	Hormone Mediated Knee Joint Laxity and Neuromechanics	The purpose of this administrative supplement is to 1) identify through advance statistical methods individual laxity profiles (comprised of AKL, GR, GJL and IER and VV laxity values) and individual knee joint biomechanical profiles (comprised of joint motions and forces during the drop landing and single leg perturbation) and determine the laxity profile(s) that are most predictive of at risk knee joint biomechanical profile(s), and 2) better understand the underlying factors leading to laxity profiles identified in Objective 1.	7/1/2009	6/30/2010	93.701, 93.702	

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			Status										
Campus	PI	Amount Awarded	Prelim. Notice	Prop.	Award	UNCT Code	Sponsor	Title	Summary	Begin Date	End Date	CFDA#	
UNCP	Sylvia Pate	$411,796			X	ET	LRCOG/WIA (subaward)	2009 Summer Youth Employment Program (SYEP)	140 in-school youth ages 14-18 will participate in a summer program designed to (a) teach pre-employment maturity skills, (b) provide academic enrichment skills/knowledge, and (c) provide 7 weeks at an assigned work site in Robeson County.	5/1/2009	9/30/2009	ARRA Fund - Youth 4040 CFDA # 17.259	08-44-5467-Yth
UNCP	Robert Poage	$216,944		X	X	AC	NIH/NIGMS	The UNC-Pembroke R.I.S.E. Program	The proposed activities stem from the specific aims of the original RISE proposal and center on developing an environment conducive to undergraduate research that will enhance successful intramural and extramural research and collaboration in the undergraduate science departments at UNC Pembroke. Specifically, activities wil contribute to the objectives of: increasing minority participation in undergraduate research, increasing successful graduate school applications from UNCP graduates, and reducing the number of under-represented minority students who fail to perform adequately in core courses.	9/1/2009	7/31/2010	93.701	3R25GM077634-04S1
UNCP	Sylvia Pate	$68,016			X	ET	NC Dept of Commerce	SBTDC Biz Boost Addendum	The SBTDC Biz Boost funds include salary and benefits for a new time-limited (12-mo) University Program Specialist position. The Program Specialist will provide consultation and program/project administration in a specialized or target program area of assignment, supporting the university in achieveing the stated program goals.	7/1/2009	6/30/2010	BPM 2009-5	

UNCP	Len Holmes	$61,731		X	X	ET	NIH/NIGMS	Developing Future Scientists in Rural N C Community Colleges	UNCP's Bridges to the Baccalaureate partnerships have allowed four regional community colleges to increase curricula, establish research, and deliver faculty training for the purpose of increasing numbers of minority studentswho are engaged in the study of science and matriculating to four-year institutions. This Administrative Supplement will allow continued financial support for faculty, staff, and minority student researchers, and will allow the partners to increase their efforts.	9/15/2009	8/31/2010	NOT-OD-09-056	3 R25 GM078657-03S1
		$ 758,487											

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UNCW	Daniel Baden	$14,979,888			X	ET	NIST	Construction of MARBIONC: Marine Biotechnology in North Carolina	Construction of a science research building designed for housing marine biotechnology university/business research and development collaborations.	9/1/2009	6/30/2011	11.618
UNCW	Bongkeun Song/Craig Tobias	$515,800			X	EV	NSF	Collaborative Researc	This project addresses key gaps in our understanding of ANAMMOX ecology by understanding how the community structure of ANAMMOX bacteria influences their activities, and lead to a more complete understanding of estuarine N loss.	6/1/2009	5/31/2012	47.082
UNCW	Steven Emslie/Marcel Van Tuinen/Thomas Lankford/William David	$314,609			X	GR	NSF	Enhancement of the Natural History Collections at the University of North Carolina Wilmington	Support the expansion of the Natural History Collections	9/1/2009	8/31/2011	47.082
UNCW	Daniel Baden	$799,999		X	X	HE	NIH	Supplement: Effects of Inhaled Florida Red Tide Brevetoxins	Effects of Inhaled Florida Red Tide Brevetoxins	7/1/2009	6/30/2010	93.701
UNCW	Paulo Almeida	$88,683		X	X	GR	NIH	Supplement: Mechanism of Amphipathic and Cargo-delivery Peptides	Mechanism of Amphipathic and Cargo-delivery Peptides	10/9/2009	9/30/2010	93.701

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Jul-09

			Status										
Campus	PI	Amount Awarded	Prelim. Notice	Prop.	Award	UNCT Code	Sponsor	Title	Summary	Begin Date	End Date	CFDA#	Federal Award #
WCU	Robertson, Phyllis	$14,377.00			x	OE	Bucombe County Government	Community-Based Youth Gang Violence Prevention Project		8/1/2009	7/31/2010	999	

$14,377.00

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				Status										
Campus	PI	Amount Requested	Amount Awarded	Prelim. Notice	Prop.	Award	UNCT Code	Sponsor	Title	Summary	Begin Date	End Date	CFDA#	Federal Award #
WSSU	Lenora Campbell	$ 450,689.00	$ 450,689.00		20100014	X	HE	DHHS Health Resources and Services Administration (HRSA)	SUPPLEMENT - Scholarship for Disadvantaged Students: BSN (Baccalaureate Nursing Degree)	SUPPLEMENT - Scholarship for Disadvantaged Students - BSN (Baccalaureate Nursing Degree)	7/1/2009	6/30/2010	93.407	T0HP15879-01-00
WSSU	Azeez Aileru	$1,031,885	$ 309,231.00		20090098	X	AC	NIH-National Institute of General Medical Sciences	Minority Access to Research Careers Undergraduate Student Training in Academic Research (MARC U*STAR)-Recovery Act Administrative Supplement	To provide training to undergraduate honor students with emphasis on the basic mechanisms of biomedical/behavioral research. While the parent grant (1T34GM070416-01A2) supports student stipends, tuition & fees, travel (for half the number of students in the program), and a part-time personnel, the current administrative supplement proposes to stimulate our progress by requesting an increase in personnel and support	8/1/2009	7/31/2011	93.701, 93.702	3T34GM070416-03S1
WSSU	Teresa Conner-Kerr	$ 128,763.00	$ 128,763.00		20100018	X	HE	DHHS Health Resources and Services Administration (HRSA)	SUPPLEMENT - Scholarship for Disadvantaged Students: Master of Science in Physical Therapy	SUPPLEMENT - Scholarship for Disadvantaged Students - Master of Science in Physical Therapy	7/1/2009	6/30/2010	93.407	T0HP15879-01-00

WSSU	Judith Porter	$ 96,572.00	$ 96,572.00		20100016	X	HE	DHHS Health Resources and Services Administration (HRSA)	SUPPLEMENT - Scholarship for Disadvantaged Students:Clinical Laboratory Science	SUPPLEMENT - Scholarship for Disadvantaged Students - Clinical Laboratory Science	7/1/2009	6/30/2010	93.407	T0HP15879-01-00
WSSU	Dorothy Bethea	$ 50,299.00	$ 50,299.00		20100017	X	HE	DHHS Health Resources and Services Administration (HRSA)	SUPPLEMENT - Scholarship for Disadvantaged Students: Master of Science in Occupational Therapy	SUPPLEMENT - Scholarship for Disadvantaged Students - Master of Science in Occupational Therapy	7/1/2009	6/30/2010	93.407	T0HP15879-01-00
WSSU	Gohar Karami	$ 35,210.00	$ 35,210.00		20100015	X	HE	DHHS Health Resources and Services Administration (HRSA)	SUPPLEMENT - Scholarship for Disadvantaged Students: Master of Science in Nursing	SUPPLEMENT - Scholarship for Disadvantaged Students - Master of Science in Nursing	7/1/2009	6/30/2010	93.407	T0HP15879-01-00
		$ 1,793,418.00	$ 1,070,764.00											