

**Division of Research & Graduate Studies**  
**2008-9 Research Development Awards**

	Principal Investigators	Dept.	College	Title	Award
1	Allison, Leslie K.	Physical Therapy	Allied Hlt	Sources of abnormal sensory reweighting in fall-prone older adults	\$19,229
2	Brewer, Kori	Emer. Medicine	BSOM	Chronic Pesticide Exposure Alters the endocannabinoid system & leads to insulin resistance	\$20,000
3	Burke, Sloane C.	Health Ed. & Prevention	HHP	Stress and Depression Coping Behaviors Among Migrant & Seasonal Farmworkers in E. North Carolina	\$18,723
4	Dar, Moahad	Internal Med.	BSOM	Gastric Bypass Surgery Cures Diabetes through Improved Insulin Secretion: A Search for Possible Mechanisms	\$20,000
5	Davis, Kathryn L.; Hodson, Patricia; Zhang, Guili**	EXSS; Physical Therapy; Curr. & Instr.	HHP; Allied Health; Education	Motivate, Adapt, and Play (MAP): An Engagement Model of Physical Activity for Students with Intellectual Disabilities **	\$40,990
6	DeVita, Paul	EXSS	HHP	Positive and Negative Muscle Work in young and Old Adults	\$19,996
7	Keiper, Brett	Biochem	BSOM	Translational control of growth and apoptosis in the C. elegans ovary	\$33,184
8	Kellam, Barbara	Grad. Nursing Sci.	Nursing	Reduced high frequency sound among hospitalized preterm infants: Effect on improved growth	\$19,067
9	Li, Youn-Qing	Physics	Arts & Sciences	Study of the mechanism of germination of Bacillus Spores via analysis of the dipicolinic acid (DPA) release from single spores using laser tweezers Raman spectroscopy	\$35,000
10	Lim, Kwang Hun	Chemistry	Arts & Sciences	The NMR Characterization of residual Structure in Amyloidogenic Unfolded States of Proteins	\$13,911
11	Limberis, Loren	Engineering	CTCS	Development of a Biohybrid DNA Separation Device Featuring Fast and Linear Separation with Single Base Pair Resolution	\$19,820
12	McMillan, Amy G.	Physical Therapy	Allied Hlt	Effects of Residential Camp Plus Year-long-Centered follow up on movement Characteristics, activity & participation in overweight adolescents.	\$17,730
13	Powers, Rebecca & Popke, Jeffrey **	Sociology: Geography	Arts & Sciences	Employers and Hispanic/latino Workers in Eastern North Carolina**	\$39,888
14	Rodriguez, Evelio	Cardio. Sciences	BSOM	Mitochondrial Dysfunction in Cardiac Muscle of Patients with Mitral Regurgitation and/or Atrial Fibrillation, and impact of surgical intervention on Exercise Capacity and Mitochondrial Function in Skeletal Muscle	\$19,920
15	Russoniello, Carmen & Murray, Nicholas**	Rec. & Leisure; EXSS	HHP	A randomized, controlled study of biofeedback training and video games in reducing stress and improving mood in patients with Sickle Cell Disease**	\$23,748
16	Stephenson, Nancy	Grad. Nursing Sci.	Nursing	Partner-Delivered Reflexology: Duration and Effects on Cancer Pain & Anxiety	\$31,231
17	Wiley, John E. & Gagnon, Gregory A.**	Pediatrics; Path. & Lab. Med.	BSOM BSOM	Optimization and Elucidation of Immune Responses Against Leukemo/Lymphogenic Fusion Proteins Derived from Chromosomal Rearrangements via Labeling with the $\alpha$ Gal Tumor Rejection Antigen**	\$29,058
18	Zeager, Lester A.	Economics	Arts & Sciences	Tracking the Impact of Hurricanes on the Incomes and Labor Earnings of Poor and Near-Poor Households: Evidence from Longitudinal CPS Data	\$12,661
19	Zeng, Xiaoming	Health Sys. Info. Man.	Allied Hlt	The Determination of Reasons and Solutions for Low Quality ICD-9-CM Coding in Cardiovascular Cases: A Quantitative Approach	\$12,774

\*\* Interdisciplinary project

total \$446,930