

October 26, 2017

The Office of Research and Economic Development is pleased to announce awards received by UNC Charlotte Researchers in the month of September, 2017.

Total amount awarded for the month of September was \$3,220,813

Fiscal Year To Date Total: \$13,703,613

Award Title	Amount	Investigators	PI Dept.	Sponsors
2016-2017 Charlotte-Mecklenburg Quality of Life Study (City)	\$40,000	Principal Investigator (PI): Simmons, Laura Co-PI: Zager, Kathryn	Urban Institute	Sponsor: City of Charlotte
A Computational Framework for Scalable Epistasis Analysis on High-Dimensional Genomic Data	\$438,452	Principal Investigator (PI): Shi, Xinghua	Bioinformatics and Genomics	Sponsor: National Institutes of Health (NIH)
A Systematic Process for Vulnerability Assessment of Biometric Systems at Borders	\$75,184	Principal Investigator (PI): Cukic, Bojan Co-PIs: Marasco, Emanuela; Shehab, Mohamed	Computer Science	Sponsor: University of Houston Prime Sponsor: Department of Homeland Security (DHS)
Adverse Childhood Circumstances and the Dynamics of Disability and Mortality throughout Adult Life	\$15,000	Principal Investigator (PI): Laditka, James Co-PI: Laditka, Sarah	Public Health Sciences	Sponsor: University of Michigan Ann Arbor Prime Sponsor: National Institutes of Health (NIH) National Institute on Aging (NIA)
Biosurveillance	\$4,400	Principal Investigator (PI): Hull, Gordon	Philosophy	Sponsor: North Carolina Biotechnology Center (NCBC)
Cabarrus County CDC REACH Evaluation	\$40,957	Principal Investigator (PI): Racine, Elizabeth	Public Health Sciences	Sponsor: Cabarrus County Prime Sponsor: Centers for Disease Control and Prevention (CDC)
Characterization of various multifunctional nucleic acid nanoparticles and understanding their immunotoxicity	\$359,895	Principal Investigator (PI): Afonin, Kirill Co-PIs: Marriott, Ian; Johnson, Morgan	Chemistry	Sponsor: National Institutes of Health (NIH)

Award Title	Amount	Investigators	PI Dept.	Sponsors
Charlotte Regional Integrated Behavioral Health Scholars (CRIBHS)	\$467,793	Principal Investigator (PI): Herman-Smith, Robert Co-PIs: Peters, Amy; Coffman, Maren; Thomas, Marie; Suclupe, Roger; Kulkarni, Shanti; Moore-Harrison, Trudy	School of Social Work	Sponsor: Department of Health and Human Services (DHHS) Health Resources and Services Administration (HRSA)
Collaborative Research: Multi-Scale, Multi-Rate Spatio-Temporal Optimal Control with Application to Airborne Wind Energy Systems	\$230,581	Principal Investigator (PI): Vermillion, Christopher	Mechanical Engineering and Engineering Science	Sponsor: National Science Foundation (NSF)
Community Link 2017	\$16,000	Principal Investigator (PI): Lane, Justin Co-PI: Gaines, Angelique	Urban Institute	Sponsor: Community Link
Confidential	\$212,319	Principal Investigator (PI): Wei, Jinpeng	Software and Information Systems	Sponsor: Confidential Prime Sponsor: Confidential
Cost of Psychosis Associated with Parkinson's Disease Among Medicare Beneficiaries	\$47,000	Principal Investigator (PI): Blanchette, Christopher Co-PI: Howden, Reuben	Deans Office College of Health and Human Services	Sponsor: Parexel International
Data Acquisition Hardware and Software for Scaled Rotor Test Rig: Phase 1	\$9,175	Principal Investigator (PI): Ziegert, John	Mechanical Engineering and Engineering Science	Sponsor: Siemens Energy
Expert support to the Master of Public Health Program and to the Avedisian Onanian Center for Health Services Research and Development.	\$17,991	Principal Investigator (PI): Thompson, Michael	Public Health Sciences	Sponsor: American University of Armenia

Award Title	Amount	Investigators	PI Dept.	Sponsors
Fabrication of large space-qualified reflective freeform optics for imaging systems	\$269,114	Principal Investigator (PI): Davies, Matthew Co-PI: Owen, Joseph	Mechanical Engineering and Engineering Science	Sponsor: University of Rochester Prime Sponsor: Department of Defense (DOD) Department of the Air Force (DAF) Air Force Research Laboratory (AFRL)
Germany Making Choices: Germany at the Polls. Campus Week 2017	\$8,070	Principal Investigator (PI): Aliaga-Buchenau, Ana-Isabel	Languages and Culture Studies	Sponsor: Embassy of the Federal Republic of Germany
Linking Integrated Genome Browser and CyVerse	\$224,613	Principal Investigator (PI): Loraine, Ann	Bioinformatics and Genomics	Sponsor: National Institutes of Health (NIH)
Metrology of large space-qualified reflective freeform optics for TMA systems	\$122,005	Principal Investigator (PI): Evans, Christopher	Mechanical Engineering and Engineering Science	Sponsor: University of Rochester Prime Sponsor: National Science Foundation (NSF)
Optical Characterization of Trehalose Glass Samples Processed Using Light-Assisted Drying	\$20,000	Principal Investigator (PI): Trammell, Susan	Physics and Optical Science	Sponsor: Harris Corporation
Optical Properties of Retroreflections (OPRA)	\$30,000	Principal Investigator (PI): Boreman, Glenn	Physics and Optical Science	Sponsor: Minority Serving Institutions Science, Technology, Engineering & Mathematics Research & Development Consortium Prime Sponsor: U.S. Army Research Development and Engineering Command, Edgewood Chemical Biological Center
Parameter-free Peak Detection Algorithm for Reducing False Positive/Negative Compound Identification from Raw Mass Spectrometry Metabolomics Data	\$163,288	Principal Investigator (PI): Du, Xiuxia Co-PI: Smirnov, Aleksandr	Bioinformatics and Genomics	Sponsor: National Institutes of Health (NIH)

Award Title	Amount	Investigators	PI Dept.	Sponsors
Risk Factors for Microscopic Colitis	\$4,439	Principal Investigator (PI): Fodor, Anthony	Bioinformatics and Genomics	Sponsor: University of North Carolina at Chapel Hill (UNC-CH) Prime Sponsor: National Institutes of Health (NIH)
Surface topography measurement in x-ray computed tomography	\$65,633	Principal Investigator (PI): Smith, Stuart	Mechanical Engineering and Engineering Science	Sponsor: Department of Energy (DOE) Lawrence Livermore National Laboratory (LLNL) Prime Sponsor: Department of Energy (DOE)
The essential dynamics of tropical rain belts: Monsoons and ITCZ in a multi-model ensemble of idealized simulations	\$77,233	Principal Investigator (PI): Scheff, Jacob	Geography and Earth Sciences	Sponsor: Columbia University Prime Sponsor: National Science Foundation (NSF)
Tools for Teachers: A NC K-5 Mathematics Collaborative	\$12,605	Principal Investigator (PI): Polly, Andrew	Reading and Elementary Education	Sponsor: Richmond County Schools Prime Sponsor: North Carolina Department of Public Instruction (NCDPI)
Vocabulary CHAOS: Creating Habits that Accelerate Academic language Of Students	\$59,236	Principal Investigator (PI): Beach, Kristen	Special Education and Child Development	Sponsor: University of California at Riverside (UCR) Prime Sponsor: Department of Education (DOED) Institute of Education Sciences (IES)
Vulnerable Care Convoys in Assisted Living: Translational Efforts to Build Effective Care Partnerships	\$189,830	Principal Investigator (PI): Jason, Kendra	Sociology	Sponsor: Georgia State University Prime Sponsor: National Institutes of Health (NIH) National Institute on Aging (NIA)