

SCICU Undergraduate Student/Faculty Research Program

Initially developed in 1995, the SCICU Undergraduate Student/Faculty Research Program increases research opportunities for undergraduate students attending SCICU member institutions. Participating students develop the skills for professional opportunities that are both scientific in nature and are the benchmarks of every highly-qualified professional. A total of 33 research proposals involving 39 students from 10 SCICU member institutions were awarded research grants totalling \$90,000 in the spring of 2018. Project research will conclude by December 8, 2018. Student researchers will present their findings at the Research Symposium on February 21, 2019 at Milliken & Company corporate headquarters in Spartanburg, SC. Listed below are the students, faculty sponsors, and the project titles for the research projects selected for funding in 2018.

INSTITUTION	STUDENT(S)	FACULTY SPONSOR(S)	RESEARCH TOPICS
SOCIAL RESEARCH PROJECTS - Research completed in December 2018 and to be presented at the 2019 Research Symposium			
Converse College	Michelle Cardona	LePage	The Climb: The Highs and Lows of Mental Health on the Appalachian Trail
Converse College	Wednesday Cooper	Reichwald	Legacy Behind the Shroud: Looking Again at Shostakovich Symphony 15 Through Its Publication Context
Converse College	Brianna Reed	Reichwald	Evolving Aesthetics: Mendelssohn and Sonata Form in the 19th Century
Furman University	Megan Collins	Wamsley	Effect of Meditation vs. Unconstrained Rest on Memory Consolidation
Furman University	Lucas Jaccard	Healy	Multilingual News Web Site Classifier
Furman University	Anvitha Yalavarthy	Tartaro	Social Psychological Theory and Participation of Women in Computing: A Meta-Review
Voorhees College	Dawn Freeman	DeSoto	Assessing the Trends of Minority Participation in Breast Cancer Clinical Trials - A Pooled Analysis
Wofford College	Michael Owens	Davis	Investigation on the Effect of Barrel Aging on the Flavor Profile of Spirits
SCIENTIFIC RESEARCH PROJECTS - Research completed in December 2018 and to be presented at the 2019 Research Symposium			
Anderson University	Andrew Wright, Michael Stevens	Ivankovic, Prager	Stimulating the Effects of Cancer Therapy Involving Optimal Levels of Phyto Extract
Coker College	Annie Hinson	Avanzato, Hauptfleisch	Antimicrobial Effects of Endophytic Fungi Isolated from <i>Kalmia latifolia</i>
Coker College	Razzel Kiplagat, Marquiest Johnson	Flaherty	Evaluating Monomine Oxidase Activity of Genetic Mutants of <i>Aspergillus niger</i>
Columbia College	Danielle O'Brien, Barbara Wanderley	Baker	Analyzing Arsenic and Lead in Fundulus Heteroclitus Fish
Columbia College	Thi Minh Ngo	Oxley	Examining Heat Shock Protein Expression in Lima Bean Tissues
Columbia College	Maryam Azeem	Allen	The role of Protein-L-isoaspartate O-methyltransferase (PIMT) in infectious disease
Columbia College	Desirae Vess	Marsh	Comparison of Disease Resistance in Hybrid Tomatoes and Open Pollinated Tomatoes Grown in the South Carolina Piedmont Region
Columbia College	Allison Kimsey	Oxley	Phytoremediation of Copper and Lead Using <i>Brassica juncea</i> and <i>Imopoea trifida</i>
Converse College	Brittany Leonard	Steele	Does Juglone or Ailanthrone have an Inhibitory Effect on the Growth and Physiology of Kudzu?
Converse College	Chiara Mattamira	Williams	Modeling DNA Self-Assembly with Graph Theory
Converse College	Bethany Spencer	Martin	Comorbid Symptom Clusters in Adults with Tourette's Disorder
Furman University	Kirtan Kumar	Kuklinski	The Effect of External Stimulation of Movement on Neurotransmitter Levels in the Cockroach
Furman University	Maya Dodhia	Nag	Characterization of Interaction Between Viral Protein nspl and Cellular Proteins in SARS Coronavirus
Furman University	Vidyaagauree Gudivada	Rice	Can Brain Dopamine D3 Receptor Antagonists Decrease PTSD in Rodents



2018 Student/ Faculty Research Symposium Participants

Milliken & Co.
February 22, 2018

INSTITUTION	STUDENT(S)	FACULTY SPONSOR(S)	RESEARCH TOPIC
SCIENTIFIC RESEARCH PROJECTS (continued)			
Furman University	Morgan Franklin	Dubash	Analysis of Cardiac-Specific Mutations of the Desmosomal Protein Plakophilin-2
Furman University	Melina Churt	Dubash	Role of the Ras and Rho Pathways in Desmosome Signaling During Skin Development
Furman University	Elias Wheibe	Rawlings	Evaluation of the Biological Activity of Hibiscone Derivatives in T Cells
Presbyterian College	Sydney Blue	Owens	Measuring the Granular Density of Modes in 3D
Presbyterian College	Preston Robinette	Owens	Prosthetic and Robotic Control via Myoelectric Sensing and Interpretation
Southern Wesleyan University	Landon Hewell	Johnson	Gonadotropins and Their Role in Arthritis
Southern Wesleyan University	Amber Goss	Mohr	Reptile Movement and Habitat Preference in Reclaimed Wetlands at Lake Conestee Nature Park, South Carolina
Southern Wesleyan University	Madison Prater, Davis Hendricks, Matthew Morgan	Eller	Synthesis of Transgenic Plant Based Edible Vaccines for Rotavirus, Astrovirus, and Adenovirus
Spartanburg Methodist College	Lindsay Fowler	Siegfried	Creating Asymmetrical Bonds in Triiodide
Wofford College	Hawkins Shepard	Blackwell	Survey of Coal Ash Contaminants in Aquatic Mussels in North and South Carolina
Wofford College	Abigail Truitt, Walker Harrell	Cruze	The Effects of Urbanization on Water Quality and Aquatic Biodiversity in Chingquapin Creek, South Carolina