

SCICU Student/Faculty Research Program

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. Thirty-seven students from twelve SCICU member institutions were awarded research grants of more than \$98,700 in the spring of 2015. The students will present their findings at the Research Symposium scheduled for February 18, 2016 at Milliken Innovation Center in Spartanburg, S.C. Listed below are the students, faculty sponsors, and the project titles.

INSTITUTION	STUDENT(S)	FACULTY SPONSOR(S)	RESEARCH TOPIC
Anderson University	Ryan Pittman / Eslie Aguilar	Dr. David Prager	Using Periodic Patterns to Statistically Verify Local Warming Trends in Low Latitude Locations
Benedict College	Astacia Watkins	Dr. Rush Oliver	Effects of Cycloheximide on Calpain Proteolysis During Crab Claw Muscle Atrophy in the Fiddler Crab
Charleston Southern University	Amy Sisson	Dr. James Brooks	Stopping Batrachochytrium Dendrobatidis
Charleston Southern University	Ingrid Bonilla	Dr. Amy Albrecht	The Effects of Essential Oil on the Growth and Gene Expression of Breast Cancer Cells
Charleston Southern University.	Joshua Satterfield	Dr. Yu-Ju Lin	Unlocking Doors Using Mobile Devices
Coker College	Arthur Cabral and Joshua Forbes	Dr. Ze Zhang	Interactive Self Learning System: Project Physics
Coker College	Toni Becker	Dr. Jessica Robbins	Small Molecule Studies Towards the Design and Synthesis of Environmentally Friendly Biodegradable Polymers
Coker College	Taylor Barefoot	Dr. Maria Valeria Avanzato	Characterization of Pythium Species in a Historical Water Lilies Pond at Kalmia Gardens, SC
Coker College	Deondre Parks	Dr. Gordon Brown	Chirped-Pulse Microwave Spectroscopy of the 3,5-Difluoropyridine-Carbon Dioxide Complex
Coker College	William Marrafo	Dr. Paul Dostert	Enriching the Learning Environment at Coker College Through Bluetooth Beacons
Coker College	Brandon Yarborough	Dr. John Hauptfleisch	Exploration of Catalysts in the Thermal Generation of Perfluoronitroalkanes
Columbia College	Ljubitca Fadie, Sarah Smith, and-Jacqueline Mayorga	Dr. Marlee Marsh	Examining the Immune Responses of Fundulus heteroclitus to Environmental Pressures
Converse College	Halley Wisner	Dr. Jennifer Berglind	Impact of Dietary Gluten on the Inflammatory Profile in the DSS Induced Colitis Mouse
Converse College	Sara Ashley Brown	Dr. Monica McCoy	The Impact of Sex Education on Sexual Behavior, Knowledge and Attitudes
Converse College	Alexandra Bruce, Ashley Majorana	Dr. Marie LePage	An Application Based Intervention Program to Reduce Body Dissatisfaction
Converse College	Kaitlyn Harrison	Dr. Stephen Brown	Determine the Presence and Functionality of LGR5+ in Adenocarcinoma Tissue
Converse College	Shannon O'Farrell	Dr. Jeff Brotherton	Anthranilate Synthase Enzyme Activity in Vivo and in Vivo and in Vitro
Converse College	Bibiana Loza	Dr. Randall Gregg	Differential Impact of Ebola virus Zaire and Sudan Strain glycoprotein upon immunosurveillance by Natural Killer Cells
Erskine College	Justin Glover	Dr. Joel Boyd	Photocatalytic Water Purification using Titania Nanotubes
Furman University	Judith Carlisle	Dr. Alison Roark	Effects of Symbionts on Sexual Reproduction in Aiptasia pallida anemones
Furman University	Jason Pecorella	Dr. Victoria Turgeon	Thrombin Plays a Role in Creating the Hostile Environment that Impedes NEuron Survival and Axon Regeneration
Furman University	James Mouer	Dr. Chris Healy	Rapid and Interactive Statistical Analysis of English Words Using a Computer Cluster
Furman University	Madison Ritter	Dr. Victoria Turgeon	Motor Neurons Survive and Regenerate Their Axons in Vitro Following Their Removal From an Injury Induced Hostile Environment
Furman University	Rachel Celestine	Dr. Andrea Tartaro	Mock Interview Technologies
Furman University	Theodore Summer	Dr. Erin Wamsley	The Effect of Cognitive Demand on Memory Retention during Rest
Furman University	Abigail Hartman	Dr. Timothy Fehler	Witchcraft, Monsters, and the Supernatural during the English Civil War
Limestone College	George Green	Dr. Scott Tanner	Effects of Mutidrug Resistance Gene Deficiency on Intestinal Cell Healing in a Model of Inflammatory Bowel Disease
Presbyterian College	Naya Martin	Dr. Stuart Gordon	Large Scale Transposon Mutagenesis of Acidovorax Avenae Subsp. Avenae
Southern Wesleyan University	Zachary Ford	Dr. Michael Keaton	Moonlight and Magnolia: A History of the Southern Plantation
Wofford College	Jordan Thomas	Dr. Ramin Radfar	Metformin, Cancer and Glucose Metabolism
Wofford College	Lauren King	Dr. John LeFebvre	Assessing Prevention and Wellness Promotion Programs in Community Colleges for Post-9/11 Veterans
Wofford College	Alexander Bentley	Dr. Charles Smith	Occurrence, Distribution and Management of At-Risk Upland Amphibian and Reptile Species