

First SC LIFE Colloquium of Undergraduate Research

*Benedict College
David H. Swinton Campus Center
April 5, 2003, Columbia, SC*

PARTICIPATING INSTITUTIONS

*Benedict College
Claflin University
Clemson University
Morris College*



Funded by an award from the Howard Hughes Medical Institute Undergraduate Biological Sciences Education Program to Clemson University

Schedule

10:00-10:40	Registration	David H. Swinton Campus Center
10:40-10:55	Opening Remarks	Meeting Room A
11:00-Noon	Oral Presentations	Meeting Rooms B and C
Noon-1:00	Lunch	Meeting Room A
1:00-2:50	Oral Presentations	Meeting Rooms B and C
3:00-4:00	Posters*	Meeting Rooms B and C

****Presenters must be present at their posters according to the following schedule:***

3:00-3:30	Poster Session I (Odd numbers from Oral Presentations)
3:30-4:00	Poster Session II (Even numbers from Oral Presentations)

Oral Presentations

TIME	ROOM B	ROOM C
11:00-11:10	1B The effect of auxin analogs on nodulation in a legume. Bryan Millis, Elise Schnabel, and Julia Frugoli. Clemson University.	1C Glutathione Production by Clinical and Environmental Isolates of <i>Aspergillus fumigatus</i>. Derrick Wilson and Milwood Motley. Benedict College.
11:10-11:20	2B Localization of an auxin responsive gene (IAA7) in a nodulating legume. Anne Knowlton, Elise Schnabel, and Julia Frugoli. Clemson University.	2C Comparison of Hemolysin and Total Protease Activities between Clinical and Environmental Isolates of <i>Aspergillus fumigatus</i>. Pamela McFadden and Milwood Motley. Benedict College.
11:20-11:30	3B Localization of auxin with the DR5::GUS reporter in a nodulating legume. Kelley Hughes, Elise Schnabel, and Julia Frugoli. Clemson University.	3C Elastase and RNase Activity in Clinical and Environmental Isolates of <i>Aspergillus fumigatus</i>. Robin Cooper and Milwood Motley. Benedict College.
11:30-11:40	4B The role of learning and olfactory cues in crayfish dominance recognition. Lauren Saulino and Michael Childress. Clemson University.	4C Material Property Variation in Moose Antlers. Jason M. Snelgrove and Dr. Richard Blob. Clemson University.
11:40-11:50	5B Zinc Toxicity in Plants JiMiesh Green, William Fleming, D. Aylmer. Morris College.	5C Culture and Characterization of Mantle Epithelial Cells (MEC) from the Eastern Oyster, <i>Crassostrea virginica</i>. Leanne Wickliffe and Tamara McNutt-Scott. Clemson University.
11:50-Noon	6B Effect of Poultry Litter Fertilizer on Zinc Levels in Soils William Fleming, JiMiesh Green, D. Aylmer. Morris College.	6C Morphological Variation in <i>Phytophthora citricola</i>. Christina A. Pulas & Steven N. Jeffers. Clemson University.
Lunch!!		
1:00-1:10	7B Investigating the Physiological Role of Acetate Kinase in Fungi. Matthew Diehl and Kelly Smith. Clemson University.	7C Molecular Characterization of Putative Group 1 <i>lea</i> Insertional Mutants of <i>Arabidopsis thaliana</i>. Julie M. Long, Alicia J. Manfre and William R. Marcotte, Jr. Clemson University.
1:10-1:20	8B The effect of laboratory infection with <i>Ascogregarina taiwanensis</i> (<i>Apicomplexa: Lecudinidae</i>) on the development and mortality of <i>Aedes aegypti</i> (<i>Diptera: Culicidae</i>). Shaun D. McCullough, Will K. Reeves, and Gayle P. Noblet. Clemson University.	8C Development of <i>Arabidopsis thaliana</i> Group 1 LEA Protein Expression Markers. Jaime Cyphert, Alicia J. Manfre and William R. Marcotte, Jr. Clemson University.

TIME	ROOM B	ROOM C
1:20-1:30	9B Female preference for the sailfin or shortfin phenotype in the Mexican sailfin molly <i>Poecilia velifera</i>. Jenny Petersen and Margaret Ptacek. Clemson University.	9C Identification of mold contamination in MAP-packed pizza crust. Collins, S. and X. Jiang. Clemson University.
1:30-1:40	10B Genetic examination of a naturally occurring interspecific hybrid between shortfin and sailfin mollies. Megan Harvey and Margaret Ptacek. Clemson University.	10C Application of immuno-nanoparticles for detection of foodborne pathogens. Clark, J., Y. Sun, and X. Jiang. Clemson University.
1:40-1:50	11B The evolution of viviparity in <i>Phrynosoma</i> lizards. Corey Roelke, Margaret Ptacek, and Richard Montanucci. Clemson University.	11C Determination of antibiotic resistance in bacterial isolates from calves. Lee, E.H., Y. Hua, and X. Jiang. Clemson University.
1:50-2:00	12B Anti-microbial Properties of Flavonoids in Freeze-Dried California Table Grape Powder. Brian Wahl and Jeremy Tzeng. Clemson University.	12C Anti-Bacterial Activities of Gossypol. Marianne Grant, Xi Wang and Feng Chen. Clemson University.
2:00-2:10	13B Plasmid Curing Properties of Freeze-Dried California Table Grape Powder. Angela Crawford and Jeremy Tzeng. Clemson University.	13C Development of enzyme linked immunosorbent assay for gossypol analysis. John C. Saunders, Xi Wang and Feng Chen. Clemson University.
2:10-2:20	14B The Effect of Melatonin on the Proliferation of SiHa (human cervical cancer) Cells. Pam Antley, Omar Bagasra and Rebecca Bullard-Dillard. Claflin University.	14C Site-directed Mutagenesis of the BRCT domain of the NAD⁺-dependent DNA ligase from Tsp AK16D. Jeremy Parker and Weiguo Cao. Clemson University.
2:20-2:30	15B <i>Escherichia coli</i> adhesin-specific biofunctionalized nanoparticles. Brannon Traxler and Fred Stutzenberger. Clemson University.	15C Identification and Characterization of Damaged DNA Bases. Athena Klutz and Weiguo Cao. Clemson University.
2:30-2:40	16B Screening of carbohydrates for their ability to bind to <i>Campylobacter jejuni</i> surface adhesin. Adam Perkins and Fred Stutzenberger. Clemson University.	16C Construction of Inosine-Containing Plasmid DNA for the Study of Endonuclease V-Mediated DNA Repair. Tom Mullen and Weiguo Cao. Clemson University.
2:40-2:50		17C Cross-linking Oleoyl-PC Desaturase. Joseph Jenkins Thompson and Gary Powell. Clemson University.

3:00-3:30 Poster Session I (Odd numbers from Oral Presentations)

3:30-4:00 Poster Session II (Even numbers from Oral Presentations)

Room B

Front of Room B

1B Millis	13B Crawford	9B Petersen
4C Snelgrove	16B Perkins	8C Cyphert

1C Watson	13C Saunders	11B Roelke
16C Mullen	6B Fleming	

9C Collins	7B Diehl	15C Klutz
14B Antley	2B Knowlton	2C McFadden

Room C

Front of Room C

3B Hughes		7C Long
4B Saulino	8B McCullough	14C Parker

11C Lee	3C Cooper	5C Wickliffe
6C Pulas	12B Wahl	12C Grant

15B Traxler	5B Green	17C Thompson
10B Harvey	10C Clark	18C Fowler

SC LIFE COLLOQUIUM OF UNDERGRADUATE RESEARCH

FACULTY & STUDENTS

<u>Faculty</u>	<u>School & Department</u>	<u>UR Student(s)</u>	<u>Major</u>	<u>Class</u>
David Aylmer	Morris College - Natural Sciences & Mathematics	William Flemming JiMiesh Green	Biology Biology	Senior Sophomore
Richard Blob	Clemson University - Biological Sciences	Jason Snelgrove	Biological Sciences	Senior
Rebecca Bullard-Dillard	Clafin University - Dept. of Biology	Pam Antley	Biology	Senior
Weiguo Cao	Clemson University - Genetics & Biochemistry	Thomas Mullen Jeremy Parker Athena Klutz	Biochemistry Biochemistry Biochem/Chemistry	Senior Senior Junior
Feng Chen	Clemson University - Food Science & Human Nutrition	John Saunders	Preprofessional Health Studies-Nutrition	Senior
Michael Childress	Clemson University - Biological Sciences	Lauren Saulino	Zoology	Sophomore
Julia Frugoli	Clemson University - Genetics & Biochemistry	Bryan Millis Kelley Hughes Anne Knowlton	Biological Sciences Biochemistry Biological Sciences	Junior Senior Junior
Steven Jeffers	Clemson University - Plant Pathology & Physiology	Christina Pulas	Microbiology	Senior
Xiuping Jiang	Clemson University, Food Science & Human Nutrition	Eric Hingleung Lee Julie Clark Susan Collins	Microbiology Microbiology Food Science	Junior Senior Junior
William Marcotte	Clemson University - Genetics & Biochemistry	Julie Long Jaime Cyphert	Biochemistry Biological Sciences	Senior Senior
Tamara McNutt-Scott	Clemson University - Biological Sciences	Leanne Wickliffe	Biological Sciences	Senior
Richard Montanucci	Clemson University - Biological Sciences	Corey Roelke	Biological Sciences	Sophomore
Milwood Motley	Benedict College - Biological & Physical Sciences	Derrick Wilson Pamela McFadden Robin Cooper	Biology Biology Biology	Junior Sophomore Sophomore
Gayle Noblet	Clemson University - Biological Sciences	Shaun McCullough	Microbiology	Junior
Gary Powell	Clemson University - Genetics & Biochemistry	Joseph Thompson	Biochemistry	Senior
Margaret Ptacek	Clemson University - Biological Sciences	Jennifer Petersen Megan Harvey	Microbiology Biological Sciences	Sophomore Sophomore
Peter Skewes	Clemson University - Animal & Veterinary Sciences	Katy Fowler	Animal & Veterinary Sciences	Senior
Kerry Smith	Clemson University - Genetics & Biochemistry	Matt Diehl	Biochemistry	Senior
Fred Stutzenberger	Clemson University - Biological Sciences	Brannon Traxler Adam Perkins	Microbiology Microbiology	Junior Senior
Jeremy Tzeng	Clemson University - Biological Sciences	Angela Crawford Brian Wahl	Microbiology Microbiology	Freshman Senior
Xi Wang	Clemson University - Food Science & Human Nutrition	Marianne Grant	Food Science & Nutrition	Senior