TOPICAL SESSIONS SCAS

Saturday, March 25th 2017

BIOLOGY: CELLULAR

8:30AM - 10:00AM Science 2, Room 203

8:30 AM	MARIJUANA A9-TETRAHYDROCANNABINOL INDUCES UNIQUE CHANGES IN THE MURINE GUT MICROBIOME THROUGH INDUCTION OF MYELOID-DERIVED SUPPRESSOR CELLS AND T HELPER 17 CELLS. William Becker and Mitzi Nagarkatti, University of South Carolina School of Medicine	
8:45 AM	DETERMINING THE SEQUENCES INVOLVED IN MPING TRANSPOSITION Jazmine I. Benjamin and C. Nathan Hancock, University of South Carolina Aiken	
9:00 AM	EXAMINING THE ENVIRONMENTAL IMPACT OF THE 1000-YEAR FLOOD ON THE ESTUARINE FISH FUNDULUS HETEROCLITUS Anna Outlaw, Peyton Lee, and Marlee Marsh, Columbia College	
9:15 AM	EXPRESSION OF VIF-RESISTANT APOBEC3G FROM A HIV-1-DEPENDENT LENTIVIRAL VECTOR Erin McLaughlin and William Jackson, University of South Carolina Aiken	
9:30 AM	AGING AND ROS-MEDIATED NEURODEGENERATION IN C. ELEGANS Chelsea Shoben and Daniel Williams, Coastal Carolina University	
9:45 AM	EXPRESSION OF HEART-SPECIFIC FLUORESCENT REPORTER PLASMIDS IN CIONA INTESTINALIS JUVENILES Brooke Davis and Heather Evans-Anderson, Winthrop University	
BIOLOGY: FIELD 8:30AM - 9:30AM Science 2, Room 119		
8:30 AM	EFFECT OF BOT FLY (<i>CUTEREBRA FONTINELLA</i>) PARASITISM ON THE MOVEMENT AND MICROHABITAT SELECTION OF WHITE-FOOTED MICE (<i>PEROMYSCUS LEUCOPUS</i>) Allison Johnson and Jonathan Storm, University of South Carolina Upstate	
8:45 AM	CHANGES IN THE VASCULAR PLANT DIVERSITY OF CUTTYHUNK ISLAND, MASSACHUSETTS Richard Stalter, St. John's University	
9:00 AM	EVALUATION OF THE TOXIC EFFECTS OF GLYPHOSATE, 2,4-DICHLOROPHENOXYACETIC ACID, AND THEIR COMBINED FORMULAS ON EARTHWORMS (<i>EISENIA FETIDA</i>) Caitlin Lazurick, Nicole Lidzbarski, Rachel Owings, Jeff Brotherton, and Edna Steele, Converse College	
9:15 AM	ACCLIMATION TIME OF EASTERN PAINTED TURTLES (CHRYSEMYS PICTA PICTA) TO A NOVEL EXPERIMENTAL ENVIRONMENT Daijha Ashford, Kajol Bajaj, and David Ferris, University of South Carolina Upstate	

BIOLOGY: MOLECULAR 8:30AM - 11:45AM

Science 2, Room 204

8:30 AM	TESTING STRATEGIES TO PRODUCE TARGETED INSERTION OF MPING Mary Roby and C. Nathan Hancock, University of South Carolina Aiken
8:45 AM	ROLE OF MIR-34A IN AMELIORATION OF SEB-INDUCED LUNG INJURY TREATED WITHTETRAHYDROCANNABINOL (THC) Amira Mohammed and Mitzi Nagarkatti, University of South Carolina School of Medicine
9:00 AM	FUNCTIONAL CHARACTERIZATION OF AN ESSENTIAL CHLOROPLAST PROTEIN Christopher Pierpont and Michelle Barthet, Coastal Carolina University
9:15 AM	UNDERSTANDING THE FUNCTION OF KDM1A USING CRISPR/CAS-9 IN ZEBRAFISH Franes Loyo-Rosado and April Delaurier, University of South Carolina Aiken
9:30 AM	GENERATING MEF2CA AND MEF2CB TRANSGENIC ZEBRAFISH LINES USING BAC-MEDIATED RECOMBINATION Kenneth Glenn and April Delaurier, University of South Carolina Aiken
9:45 AM	CTSK:MCHERRY-ITOL2 - A TRANSGENIC CONSTRUCT TO STUDY THE ROLE OF OSTEOCLASTS DURING ZEBRAFISH DEVELOPMENT Brianna Snelling and April Delaurier, University of South Carolina Aiken
10:00 AM	BREAK
10:15 AM	TESTING A SIRNA TARGETING HIV-1 VIF Alyssa Smith and William Jackson, University of South Carolinaa
10:30 AM	GENERATING A HIV-1-DEPENDENT CHIMERIC VECTOR TO DELIVER A PRO- APOPTOTIC GENE Natalie Arthur and William Jackson, University of South Carolina Aiken
10:45 AM	DEVELOPMENT OF AN MPING-BASED ACTIVATION TAG FOR ZEBRAFISH MUTAGENESIS Tiana Chandler and Nathan Hancock, University of South Carolina Aiken
11:00 AM	PROTEIN-PROTEIN INTERACTIONS ASSOCIATED WITH A PUTATIVE CHLOROPLAST SPLICEOSOME Alexandra Margets and Michelle M. Barthet, Coastal Carolina University
11:15 AM	ROLE OF AHR LIGANDS IN MICRORNA-MEDIATED TH17/T REGULATORY CELL DIFFERENTIATION IN DELAYED TYPE HYPERSENSITIVITY Osama Abdulla, Mitzi Nagarkatti, and Prakash Nagarkatti, University of South Carolina School of Medicine
11:30 AM	SIRNA MEDIATED DOWNREGULATION OF HIV-TAT IN ANTI-TAT SIRNA PROTECTED LYMPHOCYTE POPULATIONS Christian Fay and William Jackson., University of South Carolina Aiken

MEDICINE / PHARMACOLOGY / PUBLIC HEALTH

8:30AM - 11:45AM Science 2, Room 206

8:30 AM	COMBINATION OF CANNABINOIDS, Δ9-TETRAHYDROCANNABINOL (THC) AND CANNABIDIOL (CBD), AMELIORATE EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS BY PROMOTING CELL CYCLE ARREST AND APOPTOSIS IN ACTIVATED T CELLS THROUGH MIRNA SIGNALING PATHWAYS Zinah Al-Ghezi, Mitzi Nagarkatti, and Prakash Nagarkatti, University of South Carolina School of Medicine
8:45 AM	2,3,7,8-TETRACHLORIDBENZO-P-DIOXIN (TCDD)-INDUCED MDSCS MEDIATE IMMUNOSUPPRESSIVE ACTIVITY THROUGH MICRORNA DYSREGULATION Wurood Neamah, Prakash Nagarkatti, and Mitzi Nagarkatti, University of South Carolina School of Medicine
9:00 AM	MICRORNA-30 MODULATES METABOLIC INFLAMMATION BY REGULATING NOTCH SIGNALING IN ADIPOSE TISSUE MACROPHAGES Kathryn Miranda, Prakash Nagarkatti, and Mitzi Nagarkatti, University of South Carolina School of Medicine
9:15 AM	ENDOCANNABINOID AMELIORATES ACUTE LUNG INJURY INDUCED BY STAPHYLOCOCCUS AUREUS ENTEROTOXIN B (SEB) THROUGH REGULATION OF MICRO-RNA Muthanna Sultan, Hasan Alghetaa, Mitzi Nagarkatti, and Prakash Nagarkatti, University of South Carolina School of Medicine
9:30 AM	THE EFFECTS OF CAFFEINE AND A HIGH SUCROSE DIET ON ADIPOSE TISSUE ACCUMULATION, MEMORY, AND ANXIETY IN RATS London Vickers and Michelle Vieyra, University of South Carolina-Aiken
9:45 AM	EFFECTS OF HEAD IMPACT ON NEUROCOGNITIVE FUNCTIONS AND BALANCE Shaquanda Ross-Simmons and Michelle Vieyra, University of South Carolina Aiken
10:00 AM	BREAK
10:15 AM	INVESTIGATION OF MORINGA OLEIFERA LEAF EXTRACT AND ITS CANCER SELECTIVE ANTIPROLIFERATIVE PROPERTIES Reagen Welch and Ashlee Tietje, Southern Wesleyan University
10:30 AM	PROGESTERONE LEVELS IN BLOOD VERSUS SALIVA OF BEEF CATTLE Leah Moorefield and Staci Johnson, Southern Wesleyan University

CHEMISTRY / BIOCHEMISTRY 8:30AM - 9:15AM Science 2, Room 120

- 8:30 AM A 1ST GENERATION AMPEROMETRIC GALACTOSE BIOSENSOR Amanda Burton and Gillian Horn and Will Case, Converse College
- 8:45 AM COMPARISON OF BACTERIOPHAGE FOUND AT RESIDENTIAL AND COMMERCIAL ENVIRONMENTS
 Alexis Setta and Elizabeth Christmas and Dr. Paul Richardson, Coastal Carolina

9:00 AM INVESTIGATING THE ACTION OF DIMETHYLFUMARATE IN NEURONS Tulsi Patel and Norma Frizzell, University of South Carolina School of Medicine

MATH / COMPUTER SCIENCE / PHYSICS / ASTRONOMY 8:30AM - 9:45AM Science 2, Room 122

8:30 AM "INVESTIGATING NON-EQUILIBRIUM FLUCTUATIONS OF NANOCOLLOIDS UNDER THE INFLUENCE OF A MAGNETIC FIELD USING DIRECT IMAGING AND SHADOWGRAPHY METHODS." Ashley Rice and Ana Oprisan and Sorinel Oprisan, College of Charleston 8:45 AM IMPROVED ALGORITHMS FOR THE THERMAL IMAGING OF EXTRASOLAR PLANETS WITH SPITZER/IRAC AND HUBBLE/NICMOS David Melnick and Joseph Carson, College of Charleston RECURSIVE RESETTING IN NEURAL NETWORKS 9:00 AM Dave Austin and Sorinel Oprisan, College of Charleston 9:15 AM LOW- DIMENSIONAL CHAOS IN ONTOGENETIC MICE INJECTED WITH COCAINE Julia Imperatore and Sorinel Oprisan, College of Charleston