SESSION 1: Undergraduate I

Group A

001 The Effects of Beta-arrestin 1 and 2 Overexpression on TLR-induced Inflammatory Cytokine Expression in RAW 264.7, Rocky C Wong¹, Hongkuan Fan², Perry Halushka², James Cook², Sarah Ashton², Peifeng Li²; ¹CofC, ²Neuroscience, MUSC.

002 Retinyl Ester Accumulation in the Absence of Light, Colleen K Sheridan¹, Yiannis Koutalos²; ¹Biology, CofC, ²Ophthalmology, MUSC.

003 Analgesic Effects of Two Sessions of Postoperative Left Prefrontal Cortex Repetitive Transcranial Magnetic Stimulation, Luke Dong¹, Scott T Reeves¹, Jeffery J Borckardt², Mark S George², Peggy Edgerton¹, Alok Madan², Larry C Field¹; ¹Anesthesia and Perioperative Medicine, MUSC, ²Psychiatry and Behavior Sciences, MUSC.

004 Determining the Variability in Developing Post-Stroke Pneumonia, Gabriela R Keeton, Daniel T Lackland; Neurosciences, MUSC.

005 The Role of NPY in the Anxiety Associated with Cocaine Abstinence, Sonam Bhimbra¹, Parrish Waters², Ronald E See²; ¹CofC, ²Neuroscience, MUSC.

006 Generation of Nicotinamide Adenine Dinucleotide Phosphate (NADPH) in Vertebrate Photoreceptors, Leopold Adler IV¹, Yiannis Koutalos², Chunhe Chen²; ¹Physics and Astronomy, CofC, ²Ophthalmology, MUSC.

Group B

007 Changes in Vasopressin Receptor Levels in Extended Amygdala Affect Anxiety During Cocaine Withdrawal, Sarah K Grothouse¹, R P Waters², Ronald E See²; ¹CofC, ²Neuroscience, MUSC.

008 Cocaine Self-Administration Modulates Vasopressin Receptors in the Extended Amygdala, Alana D Guziewicz¹, Parrish Waters², Ronald See²; ¹Biology, CofC, ²Neuroscience, MUSC.

009 Impact of Modafinil on Stress and Cue Reactivity in Cocaine Dependent Individuals, Charles D Leiner¹, Margaret M Moran-Santa Maria², Lisa Nunn², Ronald E See³, Aimee L McRae-Clark⁴; ¹Medicine, MUSC, ²Psychiatry & Behavioral Sciences, MUSC, ³Neurosciences, MUSC, ⁴Psychiatry & Behavioral Services, MUSC.

010 Effect of Intranasal Oxytocin on Marijuana Craving, Aaron M Schott, Amanda M Wagner, Erin N Lindley, Nathan Baker, Aimee McRae-Clark; Psychiatry and Behavioral Sciences, MUSC.

011 Modafinil Reverses Methamphetamine-Induced Memory Deficits On An Object-In-Place Task In Rats: Role Of Glutamate Receptor Expression, Meghin J Gilstrap¹, Carmela M Reiche³, Lauren A Ramsey³, Jackie F McGinty³, Ron E See²; ¹Psychology/Neuroscience, CofC, ²Neurosciences, MUSC, ³Biology, CofC.

012 Oxytocin As A Neuromodulator Of The Stress Response System For Self-Administered Cocaine Animals, Stephanie R Johnson¹, Parrish R Waters,² Ronald E See²; ¹Biology, CofC, ²Neuroscience, MUSC.
SESSION 2: Undergraduate II

Group A

013 Novel Targets of Nkx2.5 Regulation in the Second Heart Field, Anthony J Horton, Kyu-Ho Lee; Regenerative Medicine and Cell Biology, MUSC.

014 In the ADAMTS5 Mouse Model of Myxomatous Valve Disease Increased Proteoglycans Contribute to Disease Progression, Kelsha M. Washington¹, Loren E. Dupuis², Marion A. Cooley², W. Scott Argraves², Christine B. Kern²; ¹Claflin University, ²Regenerative Medicine and Cell Biology.

015 Effects of a Connexin43 Mimetic Peptide on Myocyte-Fibroblast Adhesion in a 3D Model of Cardiac Injury, Hina Siddiqui¹, Emily L Ongstad², Robert G Gourdie²; ¹Biology, College of Charleston, ²Regenerative Medicine and Cell Biology, MUSC.

016 Retrospective Noise Correction in Diffusional Kurtosis Imaging, Glenn R George, Tabesh Ali; Radiology and Radiological Science, MUSC.

017 Space Flight Causes Transcriptomic Changes in the Small Intestine Affecting Nutrition and Digestion, Max N Hughes¹, Scott W Argraves², Jeremy L Barth²; ¹Clemson University, ²Regenerative Medicine and Cell Biology, MUSC.

018 The Effect of Fingolimod (FTY720) on Small Cell Lung Cancer and Non-Small Cell Lung Cancer, Jessica S Creel¹, Sahar Saddoughi², Besim Ogretmen²; ¹Chemistry, Winthrop University, ²Biochemistry & Molecular Biology, MUSC.

Group B

020 Velcade and Organ Transplant Desensitization, Emma M Bradley, Omar Moussa, Yuan Shao; Pathology and Laboratory Medicine, MUSC.

021 Attitudes and Knowledge of Atrial Fibrillation Treatment and Stroke Prevention, Andrew B Gundran¹, Daniel T Lackland²; ¹Psychology, Clemson, ²Neuroscience, MUSC.

022 Growth Failure In Early Neglect: A Comparison Of Neglected U.S. Children And International Adoptees, Doreen Condó¹, Brad Miller², John Himes², Andrea Summer³, Angela Larosa³, Eve Spratt³; ¹Pediatrics, MUSC, ²Univ of Minnesota, ³Medicine, MUSC.

023 Association of Willingness to Participate in Research Studies with Payment, Risk, and Time Among Individuals with Type 2 Diabetes, Kimberly T Arnold¹, Leonard Egede², Clara L Dismuke³, Joni Strom²; ¹CofC, ²Health Disparities, MUSC, ³VAMC.

024 A Comparison of the Impact of Community Support on Post-Disaster Mental Health Outcomes in Urban and Non-Urban Settings, Jenny S West¹, Matthew Price¹, Kirstin Grös¹, Jenna McCauley¹, Dan F Grös², Kenneth J Ruggiero¹; ¹Psychiatry, MUSC, ²Mental Health, VAMC.
GROUP A

025 Exploring Health Behaviors and Life Satisfaction Amongst Health Professional Students At the Medical University of South Carolina, Brian C Ginty, Elizabeth B Brown, Shirabrandy Garza, Emily A Jeffcoat, Laura C Patterson, Hazel L Breland; Occupational Therapy, MUSC.

026 Management of Hypertension At a Free Clinic and Emergency Department, Thomas E Miller III, Daniel Lackland; Neurosciences, MUSC.

027 Movement Patterns of Infants with Known Brain Abnormalities in the First 3 Months of Life, Allison E McFall1, Laura Beth Meyer2, Caitlin Judd3, Maggie Balleh3, Jessica Perkel4, Noelle Moreau5, Patty Coker-Bolt6, Dorothea Jenkins7; 1Occupation Therapy, MUSC, 2Occupational Therapy, MUSC, 3Physical Therapy, MUSC, 4Pediatrics-Neonatology, MUSC.

028 An Exploration of Early Motor Delays and Early Intervention for an Extremely Premature Infant, Lisa M Johnson1, Abbie K Martin1, Jessica Perkel2, Noelle Moreau3, Patty Coker-Bolt1, Dorothea Jenkins2; 1Occupational Therapy, MUSC, 2Pediatrics-Neonatology, MUSC, 3Physical Therapy, MUSC.

029 Infant Head Movements: Intrarater and Interrater Reliability Using Dartfish 2D Motion Kinematics, Caroline G Tuttle1, Casey E Hudson1, Jessica Perkel2, Noelle Moreau3, Patty Coker-Bolt1, Dorothea Jenkins2; 1Occupational Therapy, MUSC, 2Pediatrics, MUSC, 3Physical Therapy, MUSC.

030 Early Motor Skill Differences in Low and High Risk Preterm Infants, Stacy G McGinnis1, Rebecca K Wiesner1, Jessica Perkel2, Noelle Moreau3, Patty Coker-Bolt1, Dorothea Jenkins4, Michelle Woodbury1; 1Occupational Therapy, MUSC, 2Pediatrics-Neonatology, MUSC, 3Physical Therapy, MUSC, 4Pediatrics – Neonatology, MUSC.

031 Differences in Muscle Architecture, Passive and Dynamic Range of Motion in High and Low Risk Preterm Infants, Margaret P Smart1, Caitlin Judd1, Katy Holthaus1, Jessica Perkel2, Patricia Coker-Bolt3, Dorothea Jenkins2, Noelle G Moreau1; 1Physical Therapy, MUSC, 2Pediatrics, MUSC, 3Occupational Therapy, MUSC.

032 Reliability of Lower Extremity Kinematics Obtained Using Two-Dimensional Video Analysis in Young Infants, Caitlin A Judd1, Margaret P Smart1, Katy Holthaus1, Jessica Perkel1, Patricia Coker-Bolt2, Dorothea Jenkins3, Noelle G Moreau1; 1Physical Therapy, MUSC, 2Occupational Therapy, MUSC, 3Pediatrics, MUSC.

033 Effect of Locus of Control on Clinical Outcomes for Diabetes, Bryan E Ashley, Melba A Hernandez-Tejada, Joni L Strom, Leonard E Egede; Medicine, MUSC.

GROUP B

034 Glycemic Control In VA Clinical Sites Compared To Non VA Sites Among Adults With Type 2 Diabetes, Jeanne B Lumpkin, Clara E Dismuke, Joni L Strom, Leonard E Egede; Medicine, MUSC.

035 Ethnic Differences in Control of Multiple Diabetes Risk Outcomes, Jamaeka N Reid, Cheryl P Lynch, Joni L Strom, Leonard E Egede; Medicine, MUSC.
036 Gender Differences in Composite Control of Cardiovascular Risk Factors, Rhonda Winchester, Cheryl P Lynch, Joni L Strom, Leonard E Egede; Medicine, MUSC.

037 Effect of Spirituality on Multiple Diabetes Outcomes, Chisom Ezenekwe, Melba A Hernandez-Tejada, Joni L Strom, Leonard E Egede; Medicine, MUSC.

038 The Impact of Group Motivational Interviewing on Treatment Utilization in Dually Diagnosed Veterans, Lauren S Jamison¹, Steven D LaRowe², Liz J Santa Ana²; ¹Medicine, MUSC, ²Substance Abuse Treatment Center, VA.

039 Free Clinic Vs Emergency Department Population Management of Diabetes Mellitus Types II: A Retrospective Study, Robert Bryant¹, Daniel Lackland², Michael Sael³; ¹Medicine, MUSC, ²Epidemiology, MUSC, ³Emergency, MUSC.

040 Significantly Elevated Smoking Rates Across Drug Dependent Study Populations, David M Friedrich¹, Annie N Simpson², R Lewis³, Aimee L McRae-Clark ⁴, Suzanne E Thomas⁴, Sudie E Back⁴, Karen J Hartwell⁴; ¹Medicine, MUSC, ²Biostatistics, Bioinformatics & Epidemiology, MUSC, ³SC Dept Health & Environmental Control, ⁴Psychiatry & Behavioral Sciences, MUSC.

041 Changes in Sleep Patterns in Medical School: Implications for Medical Errors, Aniruddh Anil Patel¹, Connor Freeman², Bernadette M Cortese², Thomas W Uhde²; ¹Medicine, MUSC, ²Psychiatry & Behavioral Sciences, MUSC.

042 Learning to Fish in an Ocean of Alcohol Research: Empirical Approaches to Study Design and Methodology in the Investigation of Stress, Alcohol, and Trauma, Joshua E Dowd, Carla K Danielson, Jenna L McCauley; Psychiatry and Behavioral Sciences, MUSC.

SESSION 4: Clinical-Professional-Masters II Basic/Clinical Sciences

Group A

043 Perifocal Diffusion Values in Assessing Prognosis of Brain Gliomas, Pritesh Topiwala¹, Vittoria M Spampinato², Zoran Rumboldt²; ¹Radiology, MUSC, ²Neuroradiology, MUSC.

044 Treatment of Cerebral Aneurysms: Does Size Matter?, Chelsey K Baldwin¹, Aquilla Turk²; ¹College of Medicine, MUSC, ²Neuro-interventional/Radiology, MUSC.

045 Attentional Control of Temporal Processing in Rats, Alexander R Matthews, Catalin V Buhusi; Neurosciences, MUSC.

046 EEG Alpha Band Asymmetry and MSCEIT Scoring in Depression, Christopher P Menzel, Ziad Nahas; Psychiatry, MUSC.

047 Prevalence and Predictors of Sleep Disorders in an Adult Sample with Type 2 Diabetes, Golsa Yazdy, Sujeev S Bains, Joni L Strom, L E Egede; Medicine, MUSC.

048 Effect Of Trust In Health Care Providers On Multiple Diabetes Outcomes, S Bouges, C P Lynch, J L Strom, L E Egede; Health Disparities Research, MUSC.
**Group B**

050 The Role of the Tongue in Secondary Palate Elevation of Prrx1 Deficient Mice, Caitlin M Biggs1, Michael J Kern2; 1Dental Medicine, MUSC, 2Regenerative Medicine and Cell Biology, MUSC.

052 Effects of TGF-Beta on NIH-3T3 Cell Proliferation, Migration, and Apoptosis, Benton L Johnson1, Steven W Kubalak2, Jayne Bernanke2; 1Medicine, MUSC, 2Regenerative Medicine and Cell Biology, MUSC.

053 The Varied Effect of NAC and Cocoa on LPS Stimulated IL-6 Release By Both Mononuclear Cells and Human Gingiva Fibroblasts, William A Stokes1, Yan Huang2; 1Medicine, MUSC, 2Endocrinology, MUSC.

054 Fli-1 Transcription Factor Affects Glomerulonephritis Development By Regulating Expression of Inflammatory Chemokine in Endothelial Cells in Kidney, eva Karam1, Eiji Suzuki1, Sarah Williams2, Xian Zhang3; 1Rheumatology & immunology, MUSC, 2Rheumatology & immunology, Ralph H. Johnson VA Medical Center, 3Rheumatology & immunology, MUSC & Ralph H. Johnson VA Medical Center.

055 Glucosylceramide and Lactosylceramide Accumulation in Lupus Nephritis: Biomarker or Mediator of Disease?, Andrew R Mather1, Maria Jose Hernandez-Corbacho2, Jennifer Schepp-Berglind2, Jonathan Donahue2, Ashley J Snider2, James Oates2, Leah J Siskind1; 1Biochemistry, MUSC, 2Medicine, MUSC.

056 Slug Expression Inhibits Vitamin D-mediated Sensitivity to Radiation in Colorectal Cancer, Eric Moretz1, Victoria J Findlay2, Silvia G Vaena2, Savannah G Bandurraga2, Michael S Ashenafi3, David T Marshall2, Dennis K Watson3, Ramsay Camp1; 1Surgery, MUSC, 2Pathology and Laboratory Medicine, MUSC, 3Radiation Oncology, MUSC.

**SESSION 5: Clinical-Professional-Masters III Basic/Clinical Sciences**

**Group A**

057 The Role of Tissue Transglutaminase-2 in the Modulation of Polymorphonuclear Leukocyte Function, David P LeBel, Meghan K Anderson, Titus A Reaves; Regenerative Medicine and Cell Biology, MUSC.

058 Fifteen-Year Experience with Peritoneovenous Shunts for Refractory Ascites Management, Sara C Smith1, Charles Bratton2, Helen Skaggs1, David Taber3, Kenneth Chavin2, Baliga Prabhakar2; 1Medicine, MUSC, 2Surgery, MUSC, 3Pharmacy, MUSC.

059 Inhibiting Effect of Albumin on Biofilm Formation in Titanium Implants in Vivo, Shivam J Desai1, Qian K Kang2; 1Medicine, MUSC, 2Orthopaedic Surgery, MUSC.

060 The Effect of TDCS in Post-operative Pain Management of Total Knee Arthroplasty, Rahul S Loungani1, Jeffrey J Borckardt2, Scott Reeves3, Josh May1; 1Medicine, MUSC, 2Psychiatry & Behavioral Sciences, MUSC, 3Anesthesiology & Perioperative Medicine, MUSC.

061 Does Laptop Ergonomic Education Translate Into Ergonomic Action?, Alexis Cameron, Meg Judy, Sarah Johnson, Mira Kraft, Bailey Munson, Mariah Valentine, Peter Bowman; Occupational Therapy, MUSC.
062 Four Kinematic Variables to Measure Quality of a Reaching Movement in Stroke Rehabilitation, Christa M Barrett¹, Katie E Kirstein¹, Tania O McElveen¹, Michelle L Woodbury², ¹Occupational Therapy, MUSC, ²Health Science and Research, MUSC.

063 Epidermal Growth Factor-induced Activation of Na+/H+ Exchanger in Orpk Cilia (+) and Orpk Cilia (-) Renal Cells From a Mouse Model of Polycystic Kidney Disease Involves Different Signaling Mechanisms, Alisha Joyner¹, Tanjina Akter², Mary G Blanton³, Maria N Garnovskaya⁴, Sonya D Coaxum⁵, ¹Medicine, MUSC, ²Rheumatology and Immunology, MUSC, ³Nephrology, MUSC.

064 Association of Mother-Infant Oral Mutans Streptococci and Infant Feeding Practices, Thao Trang N Latham¹, Susannah C Shirer², Carol L Wagner³, Bruce W Hollis⁴, Myla Ebeling⁵, Thomas C Hulsey⁶, Susan G Reed⁷, ¹Craniofacial Biology, MUSC, ²Oral Rehabilitation, MUSC, ³Pediatrics-Neonatology, MUSC, ⁴Pediatrics-Epidemiology, MUSC.

Group B

065 Stroke Rehabilitation: Does Arm Movement Quality Relate to Amount of Functional Use During Reaching Tasks?, Meredith M Smith¹, Aaron J Hardee¹, Sheronda C Lucas¹, Claire C Marsh¹, Michelle L Woodbury², ¹Occupational Therapy, MUSC, ²Health Science and Research, MUSC.

066 Contributors To Ankle Proprioception For Static And Dynamic Tasks, Lisa M Floyd, Taylor C Holmes, Jesse Dean; Physical Therapy, MUSC.

067 Differences in Impulsivity Among Drug-Dependent Populations, Jap'el Sumpter, A Simpson, M Owens, A McRae-Clark, K Hartwell; Psychiatry, MUSC.

068 Radiation-Induced Xerostomia in Oral, Head and Neck Cancer Patients, Tiffany L Lovelace¹, Terry Day², ¹Dental Medicine, MUSC, ²Otolaryngology - Head & Neck Surgery, MUSC.

069 Caffeine and Alcohol Intake and Nicotine Dependence Severity in Female Smokers, Christine N Riyad, Kevin M Gray; Psychiatry and Behavioral Sciences, MUSC.

070 Examination of the Role of HuR in the Post-Transcriptional Regulation of Nucleolin Expression in Breast Cancer Cells, Tracy Tholanikunnel¹, Sudeep Bose², Eleanor Spicer³, ¹Medicine, MUSC, ²Regenerative Medicine and Cell Biology, MUSC, ³Biochemistry and Molecular Biology, MUSC.

071 Noncanonical, Rapid Downstream Crosstalk Between TGFβ and Retinoic Acid Signaling Pathways As Revealed By the Proximity Ligation Assay, Craig Kutz¹, James Atkison², Jayne Bernanke³, Steven Kubalak³, ¹Medicine, MUSC, ²Graduate Studies, MUSC, ³Regenerative Medicine and Cell Biology, MUSC.

SESSION 6: Clinical-Professional-Masters IV Basic/Clinical Sciences

Group A

072 Tumor Location is an Independent Prognostic Factor in Head and Neck Merkel Cell Carcinoma, Olivia P MaDan¹, Valerie A Smith¹, Eric J Lentsch², ¹Otolaryngology, MUSC, ²Otolaryngology-Head and Neck Surgery, MUSC.

073 Bilateral Amygdalal Lesions, Depression, and Suicide in an Adolescent with Neurocutaneous Melanosis, Dennis E Orwat¹, Nicholas I Batalis², ¹Medicine, MUSC, ²Pathology & Laboratory Medicine, MUSC.
074 Who Needs an MRI? Laterality and Specificity of Prefrontal Craving Centers for Treatment with TMS, Morgan Jones¹, Colleen A Hanlon², Xingbao Li³, Karen J Hartwell³, Mark S George²; ¹Medicine, MUSC, ²Psychiatry & Behavioral Sciences, MUSC.

075 Effect of a Designated Reader and Cognitive Aid on Resident Performance During Simulation of Peri-operative Emergencies, Julius E Hamilton, Jarod Suber, Rieke Horst, Carlee Clark, Matthew McEvoy; Anesthesia and Perioperative Medicine, MUSC.

076 The Prevalence and Clinical Significance of Mycoplasma Genitalium in Our Gynecologic Patients: A Preliminary Review, Karla E Williams, Oluwatosin Jaiyeoba, David E Soper; Obstetrics and Gynecology, MUSC.

077 Demographic, Clinical, and Laboratory Characteristics of 155 Pediatric Nephrolithiasis Patients, Jeffrey J Tutman, Laura P Adams, Lauren J Becton, David J Sas; Pediatrics, MUSC.

078 Chemotherapy Tolerance in Colorectal Cancer Patients Post Liver Resection: A 5-year Retrospective Study At a Regional Teaching Hospital, Leah D Fryml¹, E Bleed², J Mills³, W J Edenfield⁴; ¹Medicine, MUSC, ²Furman University, ³Wofford College, ⁴Cancer Center of the Carolinas.

079 Determining The Presence Of An Ear Advantage Yielding Increased Success Following Cochlear Implantation In The Elderly, Wasef K Muzaffar, Ted A Meyer; Otolaryngology-Head and Neck Surgery, MUSC.

Group B

080 Connexin 40 Remodeling in Purkinje Cardiomyocytes Post-Myocardial Infarction, Satara A Brown¹, Mary S Rackley², Brett S Harris³, Terrence X O'Brien²; ¹Medicine, MUSC, ²Cardiology, MUSC; Medicine, VAMC, ³Regenerative Medicine and Cell Biology, MUSC.

081 Unanticipated Effects of Adenosine on Microtubule Density, Flora M Simmons, Grace Wallenborn, George Cooper; Medicine, MUSC.

082 The Pitfalls of Automated Functional Analysis in Cardiac CT, Nelson E Seabrook, Pal Suranyi; Radiology, MUSC.

083 Generation of a Novel Bacteriostatic and Anti-collagenolytic Dental Adhesive Through the Incorporation of Polyacrylic Acid Modified Copper Nanoparticles Into Adhesive Resins, Andrew W Ambrose¹, Walter Renne¹, Michael Schmidt²; ¹Restorative Dentistry, MUSC, ²Microbiology, MUSC.

084 Salivary Morbidity Following Radioactive Iodine Treatment for Thyroid Carcinoma, Ashley E Mishoe¹, Isaac F Dingle², M Boyd Gillespie³, Eric J Lentsch³, Shaun A Nguyen³; ¹Pharmacy, MUSC, ²Medicine, MUSC, ³Otolaryngology-Head & Neck Surgery, MUSC.

085 Effects of Cortisol and Norepinephrine on the Expression of the Tumor Antigen MUC1 in DU-145 Prostate Cancer Cells, Kristina Andrijauskaite¹, Daniel J Fernandes¹, Nigel S Courtenay-Luck¹, Katherine Regan Sterba²; ¹Biochemistry, MUSC, ²Biostatistics and Epidemiology, MUSC.

086 Hypertonic Saline Immune Functions, Kevin M Phelan¹, Diane E Neal², Samir Fakhry³; ¹Medicine, MUSC, ²Health Sciences, Walden, ³Surgery, MUSC.
SESSION 7: PhD I

Group A

087 Efficacy of Transcranial Direct Current Stimulation (tDCS) and Repetitive Transcranial Magnetic Stimulation (rTMS) for the Treatment of Fibromyalgia Syndrome: A Systematic Review, Nicole M. Marlow¹, Health S Bonilha², E Baron Short³; ¹Biostatistics and Epidemiology, MUSC, ²Health Sciences and Research, MUSC, ³Psychiatry and Behavioral Sciences, MUSC.

088 Associations Between Coping Styles, Diabetes Knowledge, Medication Adherence, and Self-Care Behaviors in Adults with Type 2 Diabetes, Brittany L Small³, Rebekah J Walker¹, Melba A Hernandez-Tejada², Jennifer A Campbell², Kimberly S Davis³, Leonard E Egede²; ¹Health Sciences and Research, MUSC, ²Medicine, MUSC, ³College of Charleston.

089 Association Between Fatalism, Medication Adherence and Self-care Behaviors in Adults with Type 2 Diabetes, Rebekah J Walker¹, Brittany L Small³, M Hernandez-Tejada², Jennifer A Campbell², Kimberly S Davis³, Leonard E Egede²; ¹Health Professions, MUSC, ²Medicine, MUSC.

091 Amino Acids Starvation Response in Saccharomyces Cerevisiae, Role of Sphingolipids Gene ISC1, Alessandra Metelli¹, Alessandro Achilli², Hovirag Lancioni², Nora Babudri², Nabil Matmati¹; ¹Biochemistry & Molecular Biology, MUSC, ²University of Perugia.

092 Rational Development of Novel Biogenic Beta-Adrenergic Selective Agonists, Robert B Cameron, Christopher Lindsey, Lauren P Wills, Richard T Trager, Craig C Beeson, Rick G Schnellmann, Yuri K Peterson; Pharmaceutical & Biomedical Sciences, MUSC.

093 The Role of Th17 and Treg Cells During HNSCC Carcinogenesis, Danielle N Justis¹, Anna-María De Costa², Corinne Schuyler², Rita Young²; ¹Microbiology and Immunology, MUSC, ²Otolaryngology, MUSC.

094 FOXO3a Transcription Factor Regulation By Thromboxane Receptor-β Signaling: Novel Mechanism for Malignant Transformation, Philip M Sobolesky¹, Julie Woolworth¹, Yuan Shao¹, Elizabeth Fowler¹, Dennis K Watson¹, Perry V Halushka², Omar Moussa¹; ¹Pathology and Laboratory Medicine, MUSC, ²Pharmacology, MUSC.

Group B

095 An Analysis of Race and Age As Factors Associated with the Development of Lymphedema Following Breast Cancer Treatment, Sybil L Prince Nelson, Joan Cunningham; Biostatistics, MUSC.

096 The Analysis of Acute Stroke Clinical Trials with Responder Analysis Outcomes, Kyra M Robinson, Sharon D Yeatts, Viswanathan Ramakrishnan, Valerie L Durkalski; Biostatistics and Epidemiology, MUSC.

097 Spatial Exposure Modeling of Environmental Risk And Intellectual Delay Outcomes, Georgiana Onicescu¹, Andrew B Lawson¹, Suzanne McDermott², Marje Aelion³, Bo Cai²; ¹Biostatistics, MUSC, ²Univ. of South Carolina, ³Univ. of Massachusetts.

098 High Content Analysis of Dynamic Agonist Stimulated Receptor, G Protein, and Beta-arrestin Trafficking, Kathryn M Appleton¹, Mi-Hye Lee², Louis M Luttrell², Yuri K Peterson³; ¹Pharmaceutical and Biomedical Sciences, MUSC, ²Medicine, MUSC, ³Pharmacy, MUSC.
099 Complement Deficiency Ameliorates Acute Cigarette Smoke Induced Lung Injury, Sarah E Casey¹, Fei Qiao¹, Stephen Tomlinson², Carl Atkinson²; ¹Microbiology & Immunology, MUSC, ²Microbiology & Immunology. MUSC.

100 Activation Induced Cell Death in Adoptively Transferred T-Cells, Matt Scheffel¹, Chris Voelkel-Johnson¹, Shikhar Mehrotra²; ¹Microbiology & Immunology, MUSC, ²Surgery, MUSC.

101 Extracellular Heat Shock Protein 90 (eHsp90) Mediates EMT in Prostate Cancer Through the Polycomb Epigenetic Pathway, Krystal L Dole, Michael Hance, Jennifer Isaacs; Pharmacology, MUSC.

SESSION 8: PhD II

Group A

102 Dephosphorylation of C-terminal Tyrosine Residues Does Not Contribute to Ethanol Inhibition of Recombinant NMDA Receptors, Ben A Hughes, John J Woodward; Neurosciences, MUSC.

103 Matrix Metalloproteinases in Reinstated Cocaine Seeking, Alex W Smith, Armina T Wiggins, Peter W Kalivas; Neurosciences, MUSC.

104 Assessing Cognitive Flexibility Following Methamphetamine Self-administration, Brittny M Cox¹, Zackary A Cope¹, Aram Parsegian¹, David E Moorman¹, Stan B Floresco², Gary Aston-Jones¹, Ronald E See¹; ¹Neurosciences, MUSC, ²Psychology, Univ. of British Columbia.

105 Homer2 Deletion Prevents Chronic Ethanol-Induced Spine Enlargement in the Nucleus Accumbens, Natalie M Straight, Natasha N New, Justin T Gass, Patrick J Mulholland, Judson L Chandler; Neurosciences, MUSC.

106 Clinical Reasoning in Graduate Prelicensure Nurses, Suzanne M Sutton¹, Lynne Nemeth¹, Darlene Amendolair², Julie Moss²; ¹Nursing, MUSC, ²Mary Black School of Nursing, University of South Carolina Upstate.

107 Business Case for Pre-treatment Swallowing Exercises, Kendrea L Focht¹, Kit N Simpson¹, Terry A Day², Bonnie Martin-Harris³; ¹Health Sciences and Research, MUSC, ²Otolaryngology-Head and Neck Surgery, MUSC.

108 DNA Damage Activates MK2-mediated Cell Cycle Control By Transcriptional Regulation of Cyclin, Bethany A Herbert, Sudha Talwar, Yogendra Padwad, Viswanathan Palanisamy; Craniofacial Biology, MUSC.

109 Activation of Apoptotic Pathways Without Cell Death in an Inner-ear Immortomouse Cell Line, Kayla R Hill¹, Fu-Quan Chen¹, Ya-Jun Guan², Jochen Schacht², Su-Hua Sha¹; ¹Pathology and Laboratory Medicine, MUSC, ²Otolaryngology, University of Michigan.

Group B

110 The Vitamin D Receptor and Retinoid X Receptor Expression Related to DNMT Levels in a Murine Model of Colitis, Rebecca W Knackstedt, Vondina Moseley, Jay Morris, Michael Wargovich; MCBP, MUSC.

111 The Ratio of Alpha-1B-Glycoprotein to Zinc Alpha-2 Glycoprotein in Urine Is an Early and Accurate Predictor of Acute Kidney Injury, Joseph L Alge¹, Michael G Janech¹, Andrew D Shaw², Lakhmir S Chawla³.
112 Acid Ceramidase Over Expression in Response to Cigarette Smoke Exposure, Sarah T Marrison¹, Joseph C Cheng¹, Thomas H Beckham¹, Ping Lu¹, Angen Liu², Sarah Casey¹, Xiang Liu¹, James S Norris¹; ¹Microbiology and Immunology, MUSC, ²Tissue Biorepository, Hollings Cancer Center, MUSC.

113 Effects of Fli-1 on T Cell Function in Lupus, Fahmin Basher¹, Zainab Amani², Marlene Bunni², Tamara Nowling²; ¹Microbiology & Immunology, MUSC, ²Rheumatology, MUSC.

114 Absence of Estrogen Receptor Alpha Reduces Plasmacytoid Dendritic Cells and Type I Interferon Production in Lupus Prone Mice, Jennifer L Scott¹, Melissa Cunningham², Osama S Naga², Gary Gilkeson²; ¹Microbiology and Immunology, MUSC, ²Medical Research Service, VA.

115 NAC and Vit D Treatment Improving Hypoxic Ischemic Injury in the Neonatal Rat Model, Danielle Clark¹, Jessica Perkel², Xingju Nie², Inderjit Singh², Dorothea Jenkins²; ¹MCBP, MUSC, ²Pediatrics, MUSC.

116 Improving Treatment of Bacterial Infections in Deep Wounds, Angela A Alexander, Xuejun Wen; Clemson-MUSC Bioengineering.

SESSION 9: PhD III

Group A

117 Racial Disparities in Repeat Admissions for Ischemic Stroke Patients Less Than 65 Years of Age, Andrea D Boan¹, David L Bachman², Robert J Adams², Wuwei Feng², Brent M Egan³, Joyce S Nicholas¹, Andrew B Lawson¹, Daniel T Lackland²; ¹Biostatistics & Epidemiology, MUSC, ²Neuroscience, MUSC, ³General Internal Medicine, MUSC.

118 Optogenetic and Pharmacologic Modulation of Locus Coeruleus Noradrenergic Neurons: Effects on Behavioral Flexibility, Zackary A. Cope¹, Elena Vazey¹, David E. Moorman¹, Stan B. Floresco², Gary S. Aston-Jones³; ¹Neurosciences, MUSC, ²Psychology, University of British Columbia.

119 Contribution of BDNF/TrkB Signaling in Rat Striatum in Response to Acute Amphetamine, Bok Soon Go, Jacqueline F McGinty; Neuroscience, MUSC.

120 Middle School Student’s Perception of Nursing As a Career, Robin E Matutina, Teresa J Kelechi, Martina Mueller; Nursing, MUSC.

121 S1P Carrier-Dependent Effects on Endothelial Barrier: HDL-S1P Prolongs Endothelial Barrier Enhancement Compared to Albumin-S1P Via Effects on S1P1 Trafficking and Signaling, Brent A Wilkerson, G Daniel Grass, Shane B Wing, W Scott Argraves, Kelley M Argraves; Regenerative Medicine and Cell Biology.

122 Regulation of Invadopodia Formation and Activity By Emmprin (CD147), Daniel Grass, Momka Bratoeva, Bryan P Toole; Regenerative Medicine and Cell Biology, MUSC.
Group B

123 ERK2 Phosphorylation of Splicing Factor 45 (SPF45) Regulates SPF45 Alternative Splicing Site Utilization and Downstream Gene Expression, Adnan M Al-Ayoubi1, Hui Zheng2, Yuying Liu1, Tao Bai3, Scott T Eblen1; 1Pharmacology, MUSC, 2Molecular Biology, The Scripps Research Institute, 3Neurology, U of Chicago.

124 Development of Selective Small Molecule Inhibitors of Heterotrimeric G-Protein Signaling for the Treatment of Ovarian Cancer, Kevin J Bigham1, Starr E Hazard2, Jonel Lirjoni3, Ellen Maher4, Joe B Blumer2, Yuri K Peterson1; 1Pharmaceutical and Biomedical Studies, MUSC, 2Pharmacology, MUSC, 3Pharmacy, MUSC, 4Patharmacolgy, MUSC.

125 Mitochondrial Fusion is Linked to Bioenergetic Capacity and Cell Survival in a Cell-based Model of PDE6B-dependent Retinitis Pigmentosa, Anthony Leonard1, Nathan Perron1, Cecile Nasarre2, Craig Beeson1, Baerbel Rohrer2; 1Pharmaceutical Sciences, MUSC, 2Ophthalmology, MUSC.

126 High Throughput Identification of Mitochondrial Toxicophores, Richard E Trager, Lauren Wills, Christopher Lindsey, Gyda Beeson, Craig Beeson, Rick Schnellmann, Peterson Yuri; Pharmaceutical and Biomedical Sciences, MUSC.

127 Microbial Electrosynthesis From CO2 By Mixed Communities, Chris Marshall, Harold May; Microbiology & Immunology, MUSC.

128 Pathogenic Natural IgM Antibodies Initiate The Inflammatory Response Important For Both Hepatic Ischemia/Reperfusion Injury And Liver Regeneration After Partial Hepatectomy, Keely L Morris1, Fei Qiao1, Songqing He1, Carl Atkinson1, Liudmila Kulik2, Michael V Holers3, Tomlinson Stephen1; 1Microbiology and Immunology, MUSC, 2Rheumatology, UCSM, 3Division of Rheumatology, UCSM.

129 Characterization of the Evolution of Immune Phenotype During the Development and Progression of Squamous Cell Carcinoma of the Head and Neck, Anna-Maria A De Costa1, Danielle Justis1, Corinne Schuyler2, Rita Young1; 1Otolaryngology, MUSC, 2Research Services, VA.

SESSION 10: PhD IV

Group A

130 The One-Year Attributable Cost of Post-Stroke Aphasia, Annie N Simpson1, Heather Bonilha1, Patrick D Mauldin2, Kit N Simpson1, Charles Ellis1; 1Health Science and Research, MUSC, 2Clinical Pharmacy & Outcome Sciences, MUSC.

131 Lights On, Relapse Off: Examining Optogenetic Inhibition of Relapse Neurocircuitry, Michael T Stefanik1, Karl Deisseroth2, Peter W Kalivas1; 1Neuroscience, MUSC, 2Psychiatry and Bioengineering, Stanford University.

132 Intra-prefrontal Cortical Infusion of Brain-derived Neurotrophic Factor Effects on Cocaine Seeking-induced Arc MRNA Induction, Nortorious T Coleman, Wei-Lun Sun, Jacqueline F McGinty; Neuroscience, MUSC.

133 Hematopoietic Stem Cell-Derived Carcinoma–Associated Fibroblasts Promote Tumor Progression, Lindsay T McDonald, Dayvia A. Laws, Amanda C. LaRue; Pathology, MUSC.
134 Anti-apoptotic Genes Family As a Novel Diagnostic Markers of Bladder Cancer, Elizabeth B Fowler¹, Philip M Sobolesky¹, Yuan Shao¹, Julie A Woolworth¹, Yuan Shao¹, Omar Moussa²; ¹Pathology, MUSC, ²Pathology, MUSC.

136 Life After Lung Cancer Resection: Exploring Rehabilitative Options to Improve Quality of Life, Melanie S. Jefferson¹, David O. Sword¹, Erica Rouvalis², Marvella E. Ford³; ¹CHP, MUSC, ²MUSC, ³HCC, MUSC.

Group B

137 AKT3 Promotes Nuclear Retention Of PGC-1 And ER Alpha By Regulation Of The Major Nuclear Export Protein, CRM-1, Daniel G Corum, Robin C Muise-Helmericks; Regenerative Medicine and Cell Biology, MUSC.

138 Effects of Perfluorooctane Sulfonate (PFOS) and Perfluorooctanoic Acid (PFOA) on IL-2 Production in the Human Jurkat T-cell Line, Kristin S Midgett¹, Margie Peden-Adams², Gary S Gilkeson¹, Diane L Kamen¹; ¹Microbiology and Immunology, MUSC, ²Harry Reid Center for Environmental Studies, University of Nevada-Las Vegas.

139 Fibulin-1 Deficiency Leads to Dysregulation of the Forkhead-Tbx1-Fgf8-Fgfr-Map Kinase Pathway and DiGeorge Syndrome-like Phenotype, Victor M Fresno, Marion A Cooley, Waleed O Twal, Kyu-Ho Lee, Jeremy L Barth, W Scott Argraves; Regenerative Medicine and Cell Biology, MUSC.

140 Seamless Phase II/III Adaptive Dose Finding Design for Longitudinal Data in Safety/Efficacy Clinical Trials, Caitlyn N Ellerbe, Jordan Elm, Viswanathan Ramakrishnan, Valerie Durkalski; Biostatistics and Epidemiology, MUSC.

141 The Role of Estrogen-Related Receptors in Cardiomyocyte Metabolic Adaptation to Oxidative Stress, Kathryn Cribben¹, Paul McDermott²; ¹MCBP, MUSC, ²Medicine, MUSC.


143 Nhanes Survey Analysis of Sexual Minority Women, April D Taylor, Kit N Simpson, Michael Saladin; Health Sciences and Research, MUSC.

SESSION 11: Postdocs-Residents-Fellows I

144 Positive Propylene Glycol in a Patient with Ethylene Glycol Toxicity, Roger W Stone, Yusheng Zhu; Pathology, MUSC.

145 XRCC1 399 Arg>Gln (28152G>A) Variation Correlates with Deterioration in Quality of Life Induced By Radiotherapy in Prostate Cancer Patients, Alina G Sofronescu, David T Marshall, Yusheng Zhu; Pathology and laboratory Medicine, MUSC.

146 Diabetes Empowerment, Medication Adherence and Self-care Behaviors in Adults with Type 2 Diabetes, Melba A Hernandez-Tejada, Jennifer A Campbell, Kimbery S Davis, Brittany L Smalls, Rebekah J Walker, Leonard E Egede; Medicine, MUSC.

147 Enhancing Behavioral Interventions for PTSD in Operation Enduring Freedom/Operation Iraqi Freedom Veterans: Influence of Personal and Environmental Factors, Matthew Price¹, Daniel F Gros²,
Martha Strachan, Jenny S West, Kenneth J Ruggiero, Ron Acierno; Psychiatry, MUSC, Mental Health, VAMC.

148 Association Of Serum Concentrations Of 25-Hydroxyvitamin D And Gingival Inflammation During Pregnancy, Vivek Singh, Carol L Wagner, Bruce W Hollis, Myla Ebeling, Thomas C Hulsey, Susan G Reed; MSCR, MUSC, Pediatrics-Neonatology, MUSC, CDM, MUSC.

149 Phase I Trial of the HDAC Inhibitor LBH589 in Combination with Sorafenib in Patients with Renal Cell Carcinoma, Non Small Cell Lung Cancer and Soft Tissue Sarcomas, Charles M Butler, Lydia T Laboccetta, Alan Brisendine, Thomas E Keane, Harry A Drabkin; Hematology and Oncology, MUSC.

150 Prognostic Factors for Nodal Spread in Thin (≤1 Mm) Melanoma: A Meta Analysis, Allison N Lundy, Kent E Armeson, Betsy Hill, Ashley C Parks, Nestor F Esnaola, David J Cole, Ramsay Camp; Surgery, MUSC, Biostatistics and Epidemiology, MUSC, Medicine, MUSC.

151 Association Between Spirituality and Depression in Adults with Type 2 Diabetes, Joni L Strom, Cheryl P Lynch, Melba A Hernandez-Tejada, Leonard E Egede; Medicine, MUSC.

SESSION 12: Postdocs-Residents-Fellows II

Group A

152 Role of OPA1 in Early Zebrafish Development, Jennifer J Rahn, Krista D Stackley, Sherine S.L. Chan; Pharmacy, MUSC.

153 EGCG, a Green Tea Polyphenol, Can Reverse Methylation Related Silencing of Genes in Human Colon Carcinomas, Jay Morris, Vondina R Moseley, Katie Coleman, Michael Wargovich; Pharmacology, MUSC, MSTP, MUSC, Western States Chiropractic College, Portland, OR.

154 Defining the Role of ICOS and CD28 Costimulation in TH17 Cell Activation, Differentiation and Tumor Immunity, Michelle Nelson, Logan W Huff, Carolyn E Rogers, Sreenath Kundimi, Chystal M Paulos; Microbiology and Immunology, MUSC, Surgery, MUSC.

155 Role of Transcription Factor Fli-1 in Regulation of Dendritic Cell and Monocyte Development, Eiji Suzuki, Sarah Williams, Eva Karam, Xian Zhang; Rheumatology and Immunology, MUSC, Ralph H. Johnson VAMC.

156 Defective Migration in Activator of G Protein Signaling 3-null Leukocytes in Response to CXCL12 and CCL19 Stimulation, Melissa B Branham-O’Connor, Ellen M Maher, Xian Zhang, Stephen M Lanier, Joe B Blumer; Cell and Molecular Pharmacology and Experimental Therapeutics, MUSC, Medicine, MUSC.

157 RAT Pathway Synchronizes FGFR1 Signaling By Intracellular Sequestration and Controlled PM Delivery of the Receptor, Jagadish Kummetha Venkata, Claire Leist Hinsch, Demetri D Spyropoulos, Erika T Brown, Simon C Watkins, Vincent Dammai; Pathology, MUSC, Cell Biology and Center for Biologic Imaging, University of Pittsburgh.

158 Effect of MKP-1 Knockout on Osteoclast Progenitor Populations and RANKL Induced Osteoclastogenesis, Valerio S Michael, Keith L Kirkwood; Craniofacial Biology, MUSC.
159 Effects of Inositol Phosphosphingolipid Phospholipase C1 Deletion on Trafficking of the Plasma Membrane ATPase (Pma1) in Cryptococcus Neoformans, Kaur Navtej¹, Mor Visesato¹, Maurizio Del Poeta²; ¹Biochemistry and Molecular Biology, MUSC, ²Craniofacial Biology, MUSC.

160 Insulin Like Growth Factor-1 Attenuates Intracellular Changes In Ventral Spinal Cord 4.1 Motoneuron Cells Damaged By Interferon-Gamma, Sookyoung Park¹, Kenkichi Nozaki¹, Arabinda Das¹, James S Krause², Naren L Banik¹; ¹Neurosciences, MUSC, ²Health Sciences and Research, MUSC.

161 Regulation Of Ogt And Oga And Their Impact On Insulin Signal Transduction, Kamala P Sundararaj, Katherine A Robinson, Maria Buse, Lauren Ball; Endocrinology, MUSC.

162 Factors Regulating the Subcellular Localization of Activators of G-protein Signaling 3: The Role of Serine/threonine Residues in the G-protein Regulatory Domain, Fatih M Kelesoglu, Sadik S Oner, Stephen M Lanier; Cell and Molecular Pharmacology, MUSC.

163 Reinstatement of Cocaine-seeking in Rats with an Addiction-prone Phenotype, R Parrish Waters, Amy B Young, Matt W Feltenstein, Ronald E See; Neurosciences, MUSC.

164 Neuronal and Behavioral Effects of Optogenetic Modulation of the Lateral Habenula, Margaret J Gill, Robert P Waters, Art C Riegel, Ron E See; Neuroscience, MUSC.

165 Proteomic Analysis Of Cerebral Spinal Fluid Reveals Candidate Biomarkers Of Domoic Acid Toxicosis In California Sea Lions, Benjamin A Neely¹, Jennifer Soper², Frances M D Gulland², John M Arthur³, Michael G Janech³; ¹Nephrology, MUSC, ²The Marine Mammal Center, ³Nephrology, MUSC, Research Service, Ralph H. Johnson VA Medical Center, Charleston, SC.

166 β-blockade Prevents P21-activated Kinase 1 (Pak1) Activation in an in Vitro Model of Cardiac Hypertrophy, Grace Wallenborn, Guangmao Cheng, Dhandapani Kuppuswamy, George Cooper; Medicine, Cardiology, MUSC.
ORAL PRESENTATIONS:
College of Health Professions (CHP) Building A: 11:45 – 3:15 pm
Bioengineering Building (BE) Room 112: 11:45 – 3:15 pm

SESSION 13: Undergraduate III: 12:30 – 2:30 pm: CHP 206

12:30 - 12:45
167 Anxiogenic Effects of Cocaine Withdrawal in Rats, Kyle T Brown, Parrish R Waters, Ronald E See; Psychology, CofC.

12:45 - 1:00
168 Structure-function Relationships in the Brain Using Imaging Across Multiple Spatial Scales, Grace Margaret A Dion, Zhongyang Lu, Manuel Levy, Prakash Kara; Neuroscience, MUSC.

1:00 - 1:15
169 Withdrawn

1:15 - 1:30
170 Withdrawn

1:30 – 1:45 BREAK

1:45 - 2:00
171 Importance of Lymph Node Metastasis in Head and Neck Sarcomas, Lewis J Overton, Valerie A Smith, Eric J Lentsch; Otolaryngology, MUSC.

2:00 - 2:15
172 Using a Community-Based Participatory Research Approach to Create and Test a Culturally Sensitive Oral Health Educational Handbook-Hollywood Smiles Handbook, Christine M Hudson¹, Lynn J West¹, Elizabeth Carpenter², Renata Leite¹; ¹Center for Oral Health Research, MUSC, ²Hollywood, SC, Mayor's Office.

2:15 - 2:30
173 A Unique Case of Anton's Syndrome, Elizabeth M Quattlebaum¹, Robert J Adams¹, Nolan Williams², Mark T Wagner³; ¹Neurosciences, MUSC, ²Psychiatry and Neurosciences, MUSC, ³Neuropsychology, MUSC.
SESSION 14: Undergraduate IV: 12:30 – 2:30 pm: CHP 207

12:30 - 12:45
174 Selective MicroRNA Suppression in Thoracic Aortic Aneurysm: Relationship of MiR-29a to Aortic Size and Proteolysis, Charlotte R Ivey¹, Jeffrey A Jones², Elizabeth C O'Quinn¹, John A Elefteriades¹, Robert E Stroud², Francis G Spinale², John S Ikonomidis²; ¹Medicine, MUSC, ²Surgery, MUSC.

12:45 - 1:00
175 Nkx2.5 Regulates Hoxb4, MiR-10a, and Jarid2 Expression in the Developing Heart, Aaron M Blackshaw¹, Kyu-Ho Lee²; ¹CofC, ²MUSC Pediatric Cardiology.

1:00 - 1:15
176 Comparative Transcriptome Analysis to Identify Genes Regulating Elastogenesis, Sharon L Guffy¹, Erin L Pardue¹, Jeremy L Barth¹, Kathleen R Braun², Thomas N Wight², W Scott Argraves¹; ¹Regenerative Medicine and Cell Biology, MUSC, ²Benaroya Research Institute.

1:15 - 1:30
177 The Effect of Cytokines on T Cell Antioxidant Capacity, Jazzmine Clemons¹, Shikhar Mehrotra²; ¹Claihin University (SURP), ²MUSC.

1:30 – 1:45 BREAK

1:45 - 2:00
178 Neurotransmitters Effected By Cocaine Addiction, Catherine M Claro, Parrish R Waters, Ronald E See; Neurosciences, MUSC.

2:00 - 2:15
179 MBD4 DNA Repair in Prostate Cancer, Sierra S. Brooks¹, David Turner²; ¹Voorhees College, ²MUSC.

2:15 - 2:30
180 Thioredoxin 1 As a Therapeutic Target in Advanced Prostate Cancer, DeAngelo Dinkins¹, Christina Voelkel-Johnson²; ¹SC State University, ²MUSC.

SESSION 15: Clinical-Professional-Masters V: 12:15 – 3:00: CHP 201

12:15 - 12:30
181 Pilot Study: Tolerability and Functionality of Two High-Fiber, Weight Loss Diets, William D Strickland¹, O'Neil M Patrick², Tonya Turner²; ¹Medicine, MUSC, ²Psychiatry, MUSC.

12:30 - 12:45
182 Prevalence of Vitamin D Deficiency in Obese Children and Adolescents, Jennifer N Paige, Janet Carter, Melissa Henshaw; Medicine, MUSC.

12:45 - 1:00
183 Predictors of Adequate Health Literacy In a Diverse Primary Care Sample with Type 2 Diabetes, Julie Teuber, Sujeev S Bains, Joni L Strom, L E Egede; Medicine, MUSC.

1:00 - 1:15

184 Multiple Cardiovascular Risk Factor Control (MCRFC) Across Sites of Care in Type 2 Diabetes, Jacob C DeWeerth, Clara E Dismuke, Joni L Strom, Leonard E Egede; Medicine, MUSC.

1:15 - 1:30

185 Effect Of Delayed Discounting On Multiple Diabetes Outcomes In Adults With Diabetes, Adam H Fox, Clara E Dismuke, Joni L Strom, Leonard E Egede; Medicine, MUSC.

1:30 – 1:45 BREAK

1:45 - 2:00

186 Differential Inflammatory Response Could Contribute To The Disparity Of Barrett's Esophagus and Esophageal Adenocarcinoma In European Versus African Americans, Jason B Wheeler¹, Dennis K Watson², Elizabeth Garrett-Mayer³, Carolyn E Reed⁴, ¹MSCR, MUSC, ²Pathology, MUSC, ³Biostatistics, MUSC, ⁴Surgery, MUSC.

2:00 - 2:15

187 Does Completion Lymphadenectomy Improve Survival for Patients with Sentinel Node-Positive Cutaneous Melanoma of the Head and Neck? Experience From the SEER Database, Valerie A Smith¹, Joan E Cunningham, PhD², Eric J Lentsch, MD¹; ¹Otolaryngology-Head and Neck Surgery, MUSC, ²Biostatistics and Epidemiology, MUSC.

2:15 - 2:30

188 Is Cirrhosis a Contraindication to Laparoscopic Cholecystectomy?, Juan José E Villar-Benavides, John McGillicuddy, Sapna Bazaz, David J Taber, Nicole A Weimert, Prabakar Baliga, Kenneth D Chavin; Transplant Surgery, MUSC.

2:30 - 2:45

189 Taking On The Social Network: Biochemical Characterization Of Pqsd Activity In Alkylquinolone Synthesis In Pseudomonas Aeruginosa, Mo Wei Yang¹, Zdzislaw Szulc², Christopher Davies², Alvin Zhou³, Yong-Mei Zhang²; ¹Biochemistry, MUSC, ²Biochemistry and Molecular Biology, MUSC, ³Engineering, Clemson University.

2:45 - 3:00

190 Severe Hunter Syndrome (Mucopolysaccharidosis II) Phenotype Secondary to Large Deletion in the X Chromosome Encompassing IDS, FMR1, and AFF2 (FMR2), Day M Burruss¹, Tim C Wood², Lesby Espinoza³, Alka Dwivedi⁴, Kenton R Holden⁵; ¹Medicine, MUSC, ²Biochemical Genetics, GGC, ³Pediatrics, University of Honduras, ⁴Cytogenetics, GGC, ⁵Neurosciences, MUSC.
11:45 - 12:00

**192 RPE65 Protein is Present Within Human Cones to Enhance Photopigment Regeneration for Vision**, Peter H Tang¹, Mona Buhusi¹, Rosalie K Crouch²; ¹Neuroscience, MUSC, ²Ophthalmology, MUSC.

12:00 - 12:15

**191 The Role of Complement Peptides, C3a, in Host Defense Against Candida, a Human Fungal Pathogen**, Geoff Bloomquist¹, Caroline Westwater²; ¹College of Dental Medicine, MUSC, ²Craniofacial Biology, MUSC.

12:15 - 12:30

**193 Melatonin Attenuates Oligodendrocyte Cell Death and Myelin Loss**, Okwuchukwu G Obi¹, Arabinda Das², Narendra L Banik²; ¹Medicine, MUSC, ²Neuroscience, MUSC.

12:30 - 12:45

**194 The Role of the Prrx-1 Gene in Cell Proliferation During Secondary Palate Development**, Charles Moore¹, Michael Kern², Christine Kern²; ¹Dental Medicine, MUSC, ²Regenerative Medicine and Cell Biology, MUSC.

12:45 - 1:00

**195 Expression of Nucleobindin-2/Nesfatin-1 in Bone Tissue**, Tejas Doshi¹, Lauren Ball¹, Alexis Nagel²; ¹Pharmacology, MUSC, ²Pharmacology, MUSC.

1:00 - 1:15

**196 Mitochondrial Dysfunction in Degenerative Pathologies**, Danielle M Desjardins¹, Craig Cano Beeson²; ¹College of Graduate Studies, MUSC, ²College of Pharmacy / Pharmaceutical & Biomedical Sciences, MUSC.

1:15 - 1:30

**197 The Effect of IRS-1 Modification By N-acetyl Glucosamine (O-GlcNAc) on the Insulin Response**, Tabatha B Davis¹, Katherine Robinson¹, Maria G Buse¹, Lauren Ball²; ¹Endocrinology, MUSC, ²Pharmacology, MUSC.

1:30 – 1:45 BREAK

1:45 - 2:00

**198 Imbalance in Histone Acetyl Transferase and Histone Deacetylase Activity During Hypertrophy**, Christopher R Smith¹, Mona S Li¹, Olga Chernysh², Elizabeth S Inks³, James C Chou³, Santhosh K Mani¹, Donald R Menick¹; ¹Cardiology, MUSC, ²Cardiology, MUSC, ³Pharmaceutical and Biomedical Sciences, MUSC.

2:00 - 2:15

**199 Interstitial Trafficking of MicroRNAs Within the Human Myocardium Following Ischemia-Reperfusion**, Ashley B Arana, Robert E Stroud, Risha Patel, Jeffery Jones, Francis G Spinale; Cardiothoracic Surgery, MUSC.

2:15 - 2:30
200 Progression of Arterial Stiffness and Coronary Atherosclerosis: Longitudinal Evaluation By Cardiac Computed Tomography, Shane Oberoi, U Joseph Schoepf, John Nance; Radiology, MUSC.

201 Radiation Dose and Image Quality At High-Speed CT Angiography of the Aorta: Intra-Individual and Inter-Individual Comparison with Conventional CT Angiography, E Lexworth Hanna¹, Paul Apfaltrer¹, J. Reid Spears¹, Garrett W Rowe¹, Daniel Harris¹, Stefan O Schoenberg², Rozemarijn Vliegenthart¹, U Joseph Schoepf¹; ¹Radiology, MUSC, ²Clinical Radiology and Nuclear Medicine, University Medical Center Mannheim.

202 Stimulation of Human Aortic Endothelial Cells (HAEC) with OxLDL-IC Stimulates Fc Gamma Receptor Expression and Endothelial Dysfunction, Katalina Romero¹, Yanchun F Li², Gabriel Virella³, Maria Lopes-Virella⁴; ¹Medicine, MUSC, ²Endocrinology, Diabetes & Medical Genetics, MUSC, ³Microbiology & Immunology, MUSC.

3:00 - 3:15
203 Kaposi's Sarcoma-Associated Herpesvirus Induced Expression Of Emmprin On The Cell Surface Following De Novo Infection Of Endothelial Cells, Paul A Bomar, Christopher Parsons; Infectious Disease, MUSC.

SESSION 17: PhD V: 11:45 – 3:15 pm: CHP 202

11:45 - 12:00
204 Mammary Gland Laterality in Normal and Neoplastic Development, Jacqulyne P Robichaux¹, Joan E Cunningham², Demetri D Spyropoulos³, Ann F Ramsdell¹; ¹Regenerative Medicine and Cell Biology, MUSC, ²Biostatistics, Bioinformatics and Epidemiology, MUSC, ³Pathology and Laboratory Medicine, MUSC.

12:00 - 12:15
205 Identifying Cancer-Associated Inflammatory Genes: A Data-Mining Approach, Saleh M Rachidi¹, Tingting Qin², Jim Zheng², Zihai Li¹; ¹Microbiology and Immunology, MUSC, ²Biochemistry and Molecular Biology, MUSC.

12:15 - 12:30
206 NAVIGATE: A Trial to Increase Patient Enrollment in Thoracic and Esophageal Cancer Clinical Trials, Kathleen B Cartmell¹, Marverella E Ford², Nestor F Esnaola³, Tricia A Adrales-Bentz⁴, Terri L Matson⁴, Carolyn E Reed⁴, Debbie C Bryant⁴, Anthony J Alberg¹,³, Lauren A Smith¹, James D Bearden⁶, Howard A Zaren⁷, Anita L Harrison⁴,¹Health Professions, MUSC, ²Biostatistics & Epidemiology, MUSC, ³Medicine, MUSC, ⁴Hollings Cancer Center, MUSC.

12:30 - 12:45
207 MKP-1 Deficiency Enhances Epithelial Neoplasia in a Murine Oral Cancer Model, Xiaoyi Zhang, Hong Yu, Keith L Kirkwood; Craniofacial Biology, MUSC.

12:45 - 1:00
208 The Role of Bone Morphogenetic Protein 4 in the Developing Inflow and Outflow Regions of the Heart, Laura Briggs¹, Jayant Kakarla², Aimee Phelps³, Andy Wessels³; ¹Regenerative Medicine and Cell Biology, MUSC, ²Regenerative Medicine and Cell Biology, MUSC.
209 Does Acetylation Regulate MiRNA Expression in Myocardial Infarction?, Ludivine Renaud¹, Harinath Kasiganesan¹, Santhosh K Mani¹, Erhe Gao², Jeffrey A Jones³, Robert E Stroud³, Donald R Menick¹; ¹Cardiology, MUSC, ²Center for Translational Medicine, Thomas Jefferson University, ³Surgery, MUSC.

1:15 - 1:30

210 Risk Stratification of Sickle Cell Patients in a Primary Care Clinic, Justin E Marsden¹, Charles Ellis¹, William P Moran², Jingwen Zhang³, Patrick D Mauldin⁴; ¹Health and Rehabilitation Science, MUSC, ²General Internal Medicine and Geriatrics, MUSC, ³General Internal Medicine, MUSC, ⁴Pharmacy, MUSC.

1:30 – 1:45  BREAK

1:45 - 2:00

211 Natriuretic Peptides Protect the RPE From Advanced Glycation End Products-Induced Barrier Breakdown, Mohammad Dahrouj, Zsolt Ablonczy, Craig E Crosson; Ophthalmology, MUSC.

2:00 - 2:15

212 Valproic Acid (VPA) Reduces Retinal Ganglion Cell (RGC) Degeneration in a Rat Model of Ocular-Hypertensive Injury, Oday Alsarraf, Phillip W Yates, Craig E Crosson; Ophthalmology, MUSC.

2:15 - 2:30

213 Globin Regulatory Proteins As Components Of The Molecular Response To Hypoxia In Alveolar Epithelial Type II Cells, Robyn G Lottes¹, Danforth A Newton², Demetri D Spyropoulos³, John E Baatz²; ¹Molecular and Cellular Biology and Pathobiology, MUSC, ²Pediatrics and Neonatology, MUSC, ³Pathology and Laboratory Medicine, MUSC.

2:30 - 2:45

214 A Comparison of the Differentiative Capacities of Induced Pluripotent Stem Cell (iPSC)-Derived Fibroblasts and Other Primary Fibroblasts in Hypoxia, Emily M Allen¹, Demetri D Spyropoulos⁴, John E Baatz⁵; ¹Marine Biomedicine and Environmental Science, MUSC, ²Pathology, MUSC, ³Pediatrics, MUSC.

2:45 - 3:00

215 Pseudomonas Aeruginosa: Utilizing Two Guns of Virulence - Swarming Motility and Biofilm Formation, Jordon D Gruber, Souzan Abdel-Samie, Yong-Mei Zhang; Biochemistry, MUSC.

3:00 - 3:15

216 Regulation of Sphingosine Kinase 1 By P53-Dependent Proteolysis, Brittany L Carroll, Linda A Heffernan-Stroud, Lina M Obeid; Biochemistry, MUSC.

SESSION 18: PhD VI: 11:45 – 3:15 pm: CHP 204

11:45 - 12:00

217 The E3 Ubiquitin Ligase EDD Regulates Platinum Resistance and is a Novel Therapeutic Target for Epithelial Ovarian Cancer, Amber T Bradley¹, Hui Zheng¹, Angela Ziebarth⁶, Wayne Sakati¹, Gabriel Lopez-Berestein⁸, Anil K Sood⁴, Charles N Landen³, Scott T Eblen¹; ¹Cell and Molecular Pharmacology and Experimental Therapeutics, MUSC, ²Obstetrics and Gynecology, University of Alabama Birmingham, ³Gynecologic Oncology, University of Texas MD Anderson Center.
12:00 - 12:15
**218 Development Of A Clinically Relevant Murine Model Of Pancreatic Cancer**, Clayton S Lewis, Jody T Mack, Charles D Smith; Pharmaceutical and Biomedical Sciences, MUSC.

12:15 - 12:30
**219 Defining the Role of FLI1 in Breast Cancer**, Melissa N Scheiber¹, Patricia M Watson², Victoria J Findlay¹, Tihana Rumboldt¹, Dennis K Watson¹; ¹Pathology, MUSC, ²Medicine, MUSC.

12:30 - 12:45
**220 Regulation of Telomerase By Sphingosine Kinase 2/Sphingosine-1-Phosphate Signaling in Lung Cancer**, Shanmugam Panneer Selvam¹, YURI K Peterson², Christopher R Gault³, Lina M Obeid³, Jennifer S Isaacs⁴, Sarah Spiegel⁵, Charles D Smith², Besim Ogretmen¹; ¹Biochemistry and Molecular Biology, MUSC, ²Pharmaceutical Sciences, MUSC, ³Medicine, MUSC, ⁴Pharmacology and Experimental therapeutics, MUSC, ⁵Biochemistry and Molecular Biology, VCU.

12:45 - 1:00
**221 Sphingosine 1-phosphate and Acid Ceramidase Modulate the Subcellular Localization of the PTEN Tumor Suppressor**, Thomas H Beckham, Xiang Liu, Joseph C Cheng, Ping Lu, Tucker Marrison, Jim S Norris; Microbiology and Immunology, MUSC.

1:00 - 1:15
**222 Bioactive Sphingolipids Regulate Cardiac Hypertrophy and Autophagy in Lipid Overload: A Role for Myristate and Its Derivatives**, Sarah E Brice¹, An Van Laer⁴, Catalin F Baicu⁵, Tuoyu Geng¹, Harinath Kasiganesan⁶, Michael Zile⁷, L. Ashley Cowart¹; ¹Biochemistry & Molecular Biology, MUSC, ²Cardiology, MUSC.

1:15 - 1:30
**223 Fibulin-1 Regulation of HB-EGF/ErbB1 Signaling in Cardiac Valvulogenesis**, Keerthi Harikrishnan, Marion A Cooley, Waleed O Twal, Victor M Fresco, Christine B Kern, William S Argraves; Regenerative Medicine & Cell Biology, MUSC.

1:30 – 1:45 BREAK

1:45 - 2:00
**224 An Integrated Bioinformatic and Biochemical Approach to Identifying Caspase Activity During the Aging Process of Karenia Brevis**, Jillian G Johnson, Frances M Van Dolah; Marine Biomedicine and Environmental Sciences, MUSC.

2:00 - 2:15
**225 SPARC and the Collagenous Extracellular Matrix of the Periodontal Ligament**, Jessica M Trombetta-eSilva¹, Amy D Bradshaw²; ¹Dental Medicine, MUSC, ²Medicine, MUSC.

2:15 - 2:30
**226 MKP-1 is Required for Canonical 1,25(OH)2D3-signaling and Osteoclastogenesis**, Alfred C Griffin, Keith K Kirkwood; Craniofacial Biology, MUSC.

2:30 - 2:45
**227 The Contribution of Fatty Acid Amides to Prymnesium Parvum Toxicity**, Matthew J Bertin¹, Paul V Zimba², Kevin R Beauchesne³, Kevin M Huncik³, Peter Moeller³; ¹Marine Biomedicine and Environmental Sciences, MUSC.
2:45 - 3:00

**228 Estrogen Receptor Agonists Protect Against Glutamate Excitotoxicity In Spinal Cord Slice Cultures**, Joshua A Smith¹, Arabinda Das¹, Gerald C Wallace¹, Swapan K Ray², Naren L Banik¹; ¹Neurosciences, MUSC, ²Pathology, Microbiology, & Immunology, USC School of Medicine.

3:00 - 3:15

**229 Changes in Prefrontal Cortex Catecholamine and Glutamate Levels During Cued Vs. Drug Primed Reinstatement of Methamphetamine-seeking in Rats**, Aram Parsegian, Ronald E See; Neurosciences, MUSC.

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**SESSION 19: PhD VII: 11:45 – 3:15 pm: Bioengineering Building BE112**

11:45 - 12:00

**230 A Novel Function of Bves Revealed By Bimolecular Interaction Studies**, Claire L Hinsch, Jagadish Kummetha-Venkata, Vincent Dammai; Pathology and Laboratory Medicine, MUSC.

12:00 - 12:15

**231 Endogenous Opioids Mediate Left Dorsolateral Prefrontal Cortex RTMS-induced Analgesia**, Joseph J Taylor¹, Jeffrey J Borckardt², Mark S George³; ¹Neuroscience, MUSC, ²Psychiatry, MUSC, ³Psychiatry, Radiology and Neuroscience, MUSC.

12:15 - 12:30

**232 Interleukin-10 And Kupffer Cells Protect The Fatty Liver From Ischemia And Reperfusion Injury**, Alton Sutter¹, Justin Ellett², Kenneth Chavin²; ¹Microbiology and Immunology, MUSC, ²Surgery, MUSC.

12:30 - 12:45

**233 The Role Of Acid Ceramidase In The Failure Of Radiation Therapy For Prostate Cancer**, Joseph C Cheng¹, S Tucker Morrison¹, Thomas H Beckham¹, Thomas E Keane², David T Marshall³, Xiang Liu¹, James S Norris¹; ¹Microbiology & Immunology, MUSC, ²Urology, MUSC, ³Radiation Oncology, MUSC.

12:45 - 1:00

**234 Elevation of CerS6 Expression Triggers Compensation Via the Ceramidase Pathway in Colon Cancer Cells**, Tejas S Tirodkar, Christina Voelkel-Johnson; MCBP, MUSC.

1:00 - 1:15

**235 Identification and Characterization of PP2C Activation By Ceramide**, David M Perry¹, Kazuyuki Kitatani², Patrick Roddy¹, Mohamad El-Osta¹, Yusuf Hannun¹; ¹Biochemistry, MUSC, ²Tottori University.

1:15 - 1:30

**236 The Role of the Cancer-associated Sm-like Oncogene on Apoptotic Messages and Chemotherapeutic Sensitivity in Pancreatic Cancer**, Elizabeth C Little¹, Ernest R Camp², Cindy Wang², Dennis K Watson³, Patricia M Watson³, David J Cole²; ¹Microbiology and Immunology, MUSC, ²Surgery, MUSC, ³Pathology, MUSC.

1:30 – 1:45 BREAK
1:45 - 2:00

237 Transcriptional Regulation of Cartilage Link Protein in the Developing Heart, Marie M Lockhart¹, Elaine Wirrig², Aimee Phelps¹, Andy Wessels¹; ¹Regenerative Medicine and Cell Biology, MUSC, ²University of Cincinnati.

2:00 - 2:15

238 Cubilin is Essential for Maintaining Blood HDL Levels, Obaidullah Aseem¹, Brian T Smith², Marion A Cooley¹, W Scott Argraves¹; ¹Regenerative Medicine and Cell Biology, MUSC, ²Regenerative Medicine and Cell Biology, MUSC.

2:15 - 2:30

239 Phosphoregulation of the Cx43 Carboxy-terminus in Cardiac Injury, Joseph A Palatinus, Robert G Gourdie; Regenerative Medicine and Cell Biology, MUSC.

2:30 - 2:45

240 PGlcNAc Nanofibers From a Marine Diatom Stimulate a Scarless Wound Healing Program, Haley B Lindner¹, Aiguo Zhang¹, Juanita Eldridge¹, Arun Seth², Rick Visconti¹, Amy Bradshaw³, John Vournakis⁴, Robin C Muise-Helmekers¹; ¹Regenerative Medicine and Cell Biology, MUSC, ²Sunnybrook Research Institute, University of Toronto, ³Medical, MUSC, ⁴Marine Polymer Technologies.

2:45 - 3:00

241 Histone Deacetylase Inhibitor Suberoylanilide Hydroxamic Acid Normalizes the Levels of Very Long Chain Fatty Acids in Human Skin Fibroblasts From X-Adrenoleukodystrophy Patients and Downregulates the Expression of Proinflammatory Cytokines in Abcd1/2 Silenced Mouse Astrocytes, Jaspreet Singh, Mushfiquddin Khan, Inderjit Singh; Pediatrics, MUSC.

3:00 - 3:15

242 Regulation of Mitochondrial Protein Biosynthesis By Formylation and Deformylation of Methionyl-tRNA, Kyle C Strickland, Sergey A Krupenko; Biochemistry, MUSC.

SESSION 20: Postdocs-Residents-Fellows III: 12:00 – 3:15 pm: CHP 205

12:00 - 12:15

243 Biased Agonism of the Angiotensin AT1 Receptor Induces the Akt-mediated Activation of the Mammalian Target of Rapamycin, Ryan T Kendall, Louis M Luttrell; Medicine, MUSC.

12:15 - 12:30

244 Lack of Nitric Oxide Synthases Increases Lipoprotein Immune Complex Deposition in the Aorta and Elevates Plasma Sphingolipid Levels in Lupus, Mohammed M Al Gadban¹, Jashalynn German², Jean-Philip Truman¹, Ellen C Riemer¹, Waleed O Twal¹, Kent J Smith¹, Jim C Oates³, Samar M Hammad²; ¹Regenerative Medicine and Cell Biology, MUSC, ²Graduate Studies, MUSC, ³Rheumatology & Immunology, MUSC.

12:30 - 12:45

245 Connexin43 Interacts with Voltage-Gated Sodium Channel 1.5 in the Perinexus of Cardiomyocytes, J Matthew Rhett, Jane Jourdan, Robert G Gourdie; Regenerative Medicine and Cell Biology, MUSC.

12:45 - 1:00
246 Prognostic Importance of Age, Gender, and Subtype in Differentiated Thyroid Cancer, Samuel L Oyer¹, Valerie A Smith², Eric J Lentsch¹; ¹Otolaryngology, MUSC, ²Medicine, MUSC.

1:00 - 1:15

247 Use of Hybrid Torque+Position Controller Towards More Realistic Movement Profiles of Neurally Controlled Devices, Pratik Y Chhatbar, Joseph T. Francis; SUNY Downstate Medical Center.

1:15 - 1:30

248 The SR Protein Kinase Clk1 Phosphorylates SPF45 and Regulates Its Degradation and Splice-Site Selectivity, Yuying Liu, Adnan Al-Ayyoubi, Hui Zheng, Jennifer Bethard, Scott T Eblen; Cell and Molecular Pharmacology and Experimental Therapeutics, MUSC.

1:30 – 1:45 BREAK

1:45 - 2:00

249 High Throughput Antifungal Drug Screening, Visesato Mor, Erika Bullesbach, Maurizio Del Poeta; Biochemistry, MUSC.

2:00 - 2:15

250 Chromosomal Instability and Virulence: A Study with Cryptococcus Neoformans, Narendra K Bairwa, Visesato Mor, Maurizio Del Poeta; Biochemistry, MUSC.

2:15 - 2:30

251 The Sphingolipid Delta 8 Desaturase SLD8 is Involved in the Pathogenesis of Cryptococcus Neoformans, Shriya Raj, Maurizio Del Poeta; Biochemistry & Molecular Biology, MUSC.

2:30 - 2:45

252 Apoptosis-Associated Proteomic Changes in C6 Glioma Cells on Alpha-Hydroxy C16-Ceramide Treatment, Venkatesh Kota¹, Vishnu M Dhople², Nancy Smythe³, George Fullbright¹, Zdzislaw Szulc¹, Alicja Bielawska¹, Hiroko Hama¹; ¹Biochemistry and Molecular Biology, MUSC, ²Functional Genomics, University of Greifswald.

2:45 - 3:00

253 Cellular Morphogenesis Under Stress is Influenced By the Sphingolipid Pathway Gene ISC1 and DNA Integrity Checkpoint Genes in Saccharomyces Cerevisiae, Tripathi Kaushlendra, Nabil Matmati, W Jim Zheng, Yusuf A Hannun, Bidyut K Mohanty; Biochemistry & Molecular Biology MUSC.

3:00 - 3:15

254 RANK Ligand Regulation of Autophagy in Oral Squamous Cell Carcinoma Tumor Cells, Yuvaraj Sambandam, Kumaran Sundaram, William L Ries, Sakamuri V Reddy; Pediatrics, MUSC.