Session 1  Undergraduate I  Harper Center Gym

Group A  8:30 – 10:00 AM

1. The Role of Brain Insulin in Functional Recovery After Stroke in Mouse Model Hyperinsulinemia
   Stacy Nguyen, Janet Boggs, Luke Watson, Catrina Sims-Robinson, College of Charleston, Department of Neurology, MUSC.

2. The Impact of Extra Cellular Matrix Remodeling on Mesenchymal Cells in Early Heart Development
   Jeremy Laxner, Josh Mifflin, Jeanette Huber, Chiagoziem Ogbonna, Christine Kern, College of Charleston, Associate Professor, MUSC.

3. The Role of Inflammation on Collagen Deposition in a Murine Model of Diastolic Heart Failure
   Shaoni Dasgupta, Hannah Riley, An O. Van Laer, Catalin F. Baicu, Michael R. Zile, Amy Bradshaw, Clemson, Department of Medicine, Division of Cardiology, Ralph H. Johnson Department of Veteran’s Affairs Medical Center, MUSC.

4. BMP-Smad-RBPJ signaling axis in the endocardial lineage plays an essential role for AV valve morphogenesis
   Miriam Atteya*, Patrick G. Smith*, Haleigh Ferro, Thomas Trusk, Jeremy L. Barth,*Co-First author, Yukiko Sugi, College of Charleston, Regenerative Medicine and Cell Biology, MUSC.

5. Tissue engineering strategies in bone; addition of a novel scaffold in optimizing wound healing
   SarahRose Hall, R. Nicole Howie, PhD, Emily Durham, MA, Zachary Grey, Nicholas Larson, Meenal Mehrotra, Medicine, Pathology and laboratory medicine, MUSC.

6. BMP-Smad signaling interacts with Notch signaling components in the AV endocardial cushion mesenchymal cells
   Haleigh Ferro, Smith Patrick, Atteya Miriam, Jiao Kai, Pleasant Dorea, Muise-Helmericks Robin, Yukiko Sugi, College of Charleston, Regenerative Medicine and Cell Biology, MUSC.


8. Regulation of Angiogenic Signaling in Pregnancy and Pre-eclampsia
   James Sinkway, Oyindamole Awe, Elizabeth V. Schulz, Carol L. Wagner, Kyu-Ho Lee, College of Charleston, Pediatric Cardiology, MUSC.

Group B  10:30 – 12:00 PM

94. Factors affecting health status in community-residing older adults in low-income communities in the tri-county area: A qualitative study
   Kaitlin Cassidy, Jordan Watkins, Melba Hernandez-Tejada, College of Charleston, College of Nursing, MUSC.

95. Microgravity regulation of p62 gene expression and proteasome activity in preosteoclast cells
   Allie Ottinger, Kayla Haire, Purushoth Ethiraj, Sakamuri Reddy, Clemson, Department of Pediatrics/Endocrinology, MUSC.

96. Development of Wearable Stimulation App to Increase Hand Functional Recovery in Patients with Neurologic Disorder
   Eli Schuster, Na Jin Seo, College of Charleston, Occupational Therapy, MUSC.

97. The development of a cognitive rehabilitation task for mice
   Alexus Williams, Madison Patrick, Tyler Stone, Catrina Sims-Robinson, Savannah State University, Neurology, MUSC.

98. Hematopoietic Stem Cell-derived Osteoblasts in the Microenvironment Enhance Osteosarcoma Tumorigenicity
   Nicholas Larson, Uday Baliga, Inhong Kang, Meenal Mehrotra, Medicine, Pathology and laboratory medicine, MUSC.

99. CRISPR-Cas9 generated allelic series of rat mutations confirms Tox3 as a breast cancer susceptibility gene
   Emilia Ballo, Lauren B Shunkwiler, Royal Pipaliya, Cody C Ashy, Julia M Moek, Benjamin Van Peel, Yang Zhao, Jan Guz, Alexander Awgulewitsch, Michael J Kern, Bart Smits, College of Charleston, Pathology and Laboratory Medicine, MUSC.

100. Dealing with glioblastoma in preclinical models using single agent HDAC inhibitor
Group A  8:30 – 10:00 AM

9  What Do Stroke Survivors Know About Stroke?
Kathryn Mase, Paige Freudenberg, Michelle Nichols, Elizabeth R. Skidmore, Michelle Woodbury, Health Professions, Department of Health Science and Research, MUSC.

10  How Do Behavioral and Virtual Reality Neglect Assessment Scores Correlate with Each Other?
Emerson Hart, Kahla Vandenbulcke, Amanda Ward, Karalyn Chaney, Michelle Woodbury, Emily Grattan, Health Professions, Division of Occupational Therapy, MUSC; Ralph H. Johnson VA Medical Center, MUSC.

11  Standardizing Gait Pattern Terminology for Use in an Interprofessional Mobile Application
Jordan Smith, Rachel Leaphart, Kristine Knowles, Ryan Locklear, Eric Monsch, Stephanie McGowen, Amanda Giles, Health Professions, Occupational Therapy, MUSC.

12  Are Certain Neglect Assessments Better at Detecting Neglect than Others in Post-Stroke Patients?
Gabrielle Burns, Ashlee Hurt, Molly Young, Michelle L. Woodbury, Emily Grattan, Health Professions, Division of Occupational Therapy, MUSC; Ralph H. Johnson VA Medical Center, MUSC.

13  The Assessment Paradox: Does a Post-Stroke Upper Extremity Assessment Accurately Indicate Paretic Arm Use at Home?
Andrea Smith, Ellie Teaster, Taylor Kwiecinski, Austen Hayes, Scott Hutchison, Christian Finetto, Michelle Woodbury, Health Professions, Department of Health Sciences, MUSC.

14  Hand Surgery Referral Patterns Among Primary Care Physicians in South Carolina
Abhishek Jain, Fernando Herrera, Medicine, Department of Plastic Surgery, MUSC.

15  Is There A Correlation Between Self-Reported And Sensor-Based Measures In Post-Stroke Individuals During Daily Activities?
Whitney Stilwell, Nick Valencic, OTS; Austen Hayes, MS, CEO Recovr Inc; Scott Hutchison, OTR/L; Christian Finetto, PhD, Michelle Woodbury, Health Professions, Department of Health Science and Research, MUSC.

16  Establishing Healthy Habits through Exercise, Nutrition, Socialization, and Stress Reduction for Young Adults (15-25yo) with ASD or Mild Neurocognitive Disorders: Piece it Together 2015-2018
Carolyn Peterseim, Dr. Martina Mueller, Ms. Janis Newton, Ms. Carrie Papa, Eve Spratt, Medicine, MUSC, Department of Developmental Pediatrics, MUSC.

17  Initial Stages of Research and Plan for the Development of a Small-scale Fishery in Okurase, Ghana
Kaylan Gee, Rene Mueller, PhD, James Malm, PhD, Linda Norton, Cynthia Swenson, Medicine, Psychiatry and Behavioral Sciences, MUSC.

Group B  10:30 – 12:00 PM

101 Building Family Centered Practice in Vietnam: Validation and Translation of Occupation-Based Pediatric Assessments
Kat Jones, Ashley Brady, Emily Graves, Thomas Platt, Haley Ranson, Nguyen Ngoc Minh, Scott Hutchison, Craig Velozo, Patty Coker-Bolt, Health Professions, Occupational Therapy, MUSC.

102 Culturally Competent?: Student Perspectives on Academic Preparation for Working with Diverse and Underserved Communities
Emily Freeman, Gabrielle Mougey, Brianna Hatchell, Katherine Patterson, Jordan Collins, Taylor Shuler, Cristina Smith, Health Professions, Occupational Therapy, MUSC.

103 Identifying motor delays in infants with congenital heart defects: clinical utility of the STEP assessment
Rachel Fleming, Evie Needle, Turki Aljuhani, Dorothea Jenkins, Patty Coker-Bolt, Health Professions, Occupational Therapy, MUSC.

104 Knowledge and Delays in Diagnosis of Oropharyngeal Neoplasms
Amanda Barrett, Elise Zhao, Sean Nguyen, Terry Day, Dental Medicine (DMD, PhD), Otolaryngology, MUSC.
105  Interpersonal Trauma and Stress Processing in Youth
   Elizabeth Evans, Casey Calhoun, Ph.D., Kathleen Crum, Ph.D., Christopher Sege, Ph.D., Carla Danielson, Medicine, Institute of Psychiatry, MUSC.

106  Relationship Between Perceived Social Support and Outcome in Concurrent Treatment of PTSD and Substance Use Disorders Using Prolonged Exposure
   Serena Walker, Derik Yeager M.B.S., Sudie Back Ph.D, Elizabeth Santa Ana, Medicine, Psychiatry and Behavioral Sciences, MUSC.

107  Health Needs Assessment of Homeless Youth in Charleston, South Carolina
   Chelsea Roach, Cristin Adams, Carole Berini, Marty Player, Vanessa Diaz, Medicine, Family Medicine, MUSC.

108  Uptake of postpartum long-acting reversible contraception among women with Emergency Medicaid
   Marissa Bass, Angela Dempsey, Medicine, OB/Gyn, MUSC.

109  Textbooks: There's an App for That!
   Sydney Mitchell, Charlotte Fletcher, Kirby Hazel, Amanda Giles, Health Professions, Department of Health Professions, MUSC.

110  BOLD-signal changes in brains of Parkinson’s Disease patients with Freezing of Gait
   Gustavo Carmen Lopez, Daniel Lench, Danielle Helms., Gonzalo Revuelta, Medicine, Neurology, MUSC.
Group A  8:30 – 10:00 AM

18 Functional EEG Analysis on Lesioned Brain
Jeremy Bose, Leonardo Bonilha, Na Jin Seo, Graduate Studies, Department of Health Professions, MUSC.

19 A Humanized Monoclonal Antibody to Secreted Frizzled Related Protein-2 Inhibits Osteosarcoma Growth in vivo
Ingrid Bonilla, Nasarre, Patrick Peterson, Yuri K Chakraborty, Paramita Spruill, Laura Broome, Marie Hill, Elizabeth Hilliard, Elanor Yustein, Jason T. Mehrotra, Shikhar, Nancy DeMore, Medicine, Surgery, MUSC.

20 Enolase Regulates Secondary Damage in Spinal Cord Injury
Rachel Polcyn, Denise Matzelle, Mollie Capone, Azim Haque, Naren L. Banik, Azizul Haque, Medicine, Microbiology and Immunology, MUSC.

21 The Role of DZIP1 and Primary Cilia in Mitral Valve Prolapse
Reece Moore, Katelynn Toomer, Diana Fulmer, Lilong Guo, Kelsey Moore, Russel Norris, Medicine, Cardiovascular Developmental Biology Center, Department of Regenerative Medicine and Cell Biology, MUSC.

22 Effect of Smoke Exposure on Intervertebral Disc Degeneration: A Rat Model
Megan Carey, Pengling Ren, Elizabeth Lee, Vincent D. Pellegrini, Jr., Charles Reitman, Hai Yao, Yongren Wu, Medicine, Orthopaedics and Physical Medicine, MUSC.

23 Use of a Specific Single-Pill Combination Therapy for Hypertension in an Academic Medical Center
Trace Neal, Daniel Lackland, Medicine, Department of Neurology, MUSC.

24 Assessing Sam68/KHDRBS1 Cellular Localization and its Relevance to the Development of Preeclampsia
Alysia Washington, Kyu-Ho Lee, Medicine, Pediatrics, MUSC.

25 Assessing Feasibility of a Sustainable Faith-based Health Initiative to Encourage Blood Pressure Self-Monitoring
Kristen Harris, Daniel Lackland, Medicine, Neurology, MUSC.

26 Implementing an innovating diagnostic tool to be used in the Pediatric Concussion Clinic
Michelle Offit, Dr. Ryan Fiorini, Ramin Eskandari, Medicine, Neurosurgery, MUSC.

27 Changes in left ventricular end-diastolic pressure following alcohol septal ablation in hypertrophic obstructive cardiomyopathy
Courtney Kramer, Ahmedreza Karimianpour DO, Davis Leaphart, Mary Lark, Christopher Nielsen MD, Valerian Fernandes, Medicine, Department of Adult Cardiology, MUSC.

28 Early Discontinuation of long-acting reversible contraception (LARC) among women living with HIV
Elizabeth Francis, Angela Dempsey, Nicole Brzozowski, Lindsay Rucker, Gweneth Lazenby, Medicine, OB/GYN, MUSC.

29 Examination of Long-term Safety and Feasibility of TheraBracelet - Phase I Trial
Shannon Cain, Eli Schuster, Andrew Fortune, Wuwei Feng, Viswanathan, Ramakrishnan, Na Jin Seo, Health Professions, Department of Health Professions, MUSC.

30 Management of Incontinence Associated Dermatitis in the Surgical Intensive Care Unit
Brandon Gates, Joy Vess, Nursing, Nursing, MUSC.

31 Use of TheraBracelet during Pediatric Constraint Induced Movement Therapy - Feasibility & Safety Study
Cathryn Taylor, Alison M. Fluharty, Eli Schuster, Amanda A. Vatinno, Turki Aljuhani, V Ramakrishnan, Patty Coker-Bolt, Na Jin Seo, Health Professions, Department of Health Professions, MUSC.

Group B  10:30 – 12:00 PM

111 Utilizing Artificial Intelligence to Determine Bone Mineral Density via Chest CT
Rock Savage, Marly van Assen, Simon Martin, Pooyan Sahbabe, L. Parkwood Griffith, U. Joseph Schoepf, Medicine, Department of Radiology, Division of Cardiovascular Imaging, MUSC.

112 The Effect of Aging on Olfactory Dysfunction
Jonathan Hill, Tina Storck MS, Tegnå Noonan BS, Zachary Soler MD, Nicholas Rowan MD, and Lois Matthews MS, Rodney Schlosser MD, Medicine, Otolaryngology- Head and Neck Surgery, MUSC.

113 Design of a Patient Navigation Intervention to Enhance Receipt of Surgery in African American Adults with Early Stage Non-Small Cell Lung Cancer
Alexandra Rice, Elizabeth Hill, PhD, Kendrea Knight, MSPH, Joanne Kim, MS, Angela M. Malek, PhD, Erica Martino, CHES, Elizabeth Davis, Ta’Myiah Reed, Alice Kim, Nestor Esnaola, MD, MPH, MBA, FACS, Marvella Ford, Medicine, Department of Public Health Sciences, MUSC.

114 Employing Artificial Intelligence to Predict Hematocrit Values from Non-Contrast CT Imaging Data - Towards Fully Automated CT-derived Myocardial Extracellular Volume Fraction Quantification
James Durden, Maximilian J. Bauer, Marly van Assen, Carlo N. De Cecco, Marco Scarabello, Lewis P. Griffith, Akos Varga-Szemes, Uwe Schoepf, Medicine, Radiology Department, MUSC.

115 Developing a Predictive Model for Premature Babies <30 Weeks Gestational Age Requiring Gastrostomy Tubes at MUSC
Daniel Gehle, Alison Chapman, Meghan Brunswick, Katherine George, Aaron Lesher, Rita Ryan, Medicine, Pediatrics, MUSC.

116 Super resolution imaging of mitochondria in polycystic kidneys
Andraia Li, Hanako Kobayashi, Craig Brooks, Kensei Taguchi, Volker Haase, Medicine, Nephrology and Hypertension, MUSC.

117 Evaluating the Prevalence of Social Communication Disorder in Children at risk for Autism Spectrum Disorder
Audrey Ward, Andrea Boan PhD, Laura Carpenter PhD, Catherine Bradley PhD, Medicine, Developmental-Behavioral Pediatrics, MUSC.

118 Maternal HIV Diagnosis Timing and Use of Guideline-Based Antiretroviral Therapies on Infant Outcomes
Ellery Cohn, Gweneth B Lazenby, Medicine, Departments of Obstetrics and Gynecology and Medicine, Division of Infectious Diseases, MUSC.

119 Arthroscopic Primary Labral Reconstruction Reduces Risk of Conversion to Total Hip Arthroplasty in Patients with Femoroacetabular Impingement, Irreparable Labral Tears, and Severe Chondral Defects
Michael Kopscik, David Maldonado, Joseph Laseter, Muriel Battaglia, Ajay Lall, Itay Perets, Benjamin Domb, Medicine, American Hip Institute, MUSC.

120 Shift Handoff Interruption Analysis in an Urban Academic Medical Center Emergency Department Setting
Bryce Robbins, Nolan Bagnal, Steven Saef MD, Diann Krywko MD, Kyle Embertson, MD, Medicine, Emergency Medicine, MUSC.

121 Changes in Left Ventricular Mass, Volume and Function After Successful Alcohol Septal Ablation (ASA) in Hypertrophic Obstructive Cardiomyopathy (HOCM)
Davis Leaphart, Ahmadreza Karimianpou, DO, Courtney Kramer, Mary Lark, Christopher Nielsen, MD, Valerian Fernandes, Medicine, Medicine: Cardiology, MUSC.

122 The Effect of a Physician's Years of Experience on Shift Handoff Length in an Emergency Department Setting
Nolan Bagnal, Bryce Robbins, Steven Saef MD, Diann Krywko MD, Kyle Embertson, Medicine, Emergency Medicine Residency Program, Department of Emergency Medicine, MUSC.

123 Author-Reported Affiliations on Accepted Abstracts at the POSNA Annual Meeting
Davis Osborn, Thomas Offerle, BS, William R Barfield, PhD, James F. Mooney, III, MD, Robert Murphy, Medicine, Orthopaedics, MUSC.
Group A 8:30 – 10:00 AM

32 Comparison of 0.1 and 0.05mg intrathecal morphine when administered with a multimodal pain regimen for postcesarean analgesia: a single center, prospective, randomized, single-blinded trial
   Carter Ellis, Kathryn Bridges, Medicine, Anesthesia, MUSC.

33 Association of computed tomography angiography parameters with clinical outcomes in patients with severe pulmonary embolism
   Alexis Violette, Emily Hodskins, Thomas Todoran, Sheldon Litwin, John Nance, Medicine, Radiology and Radiological Science, MUSC.

34 Single session pharmaco-mechanical thrombectomy versus thrombolysis for lower extremity acute deep vein thrombosis (DVT)
   Ben Archambault, Jonathan Perry, Heather Collins, Ricardo Yamada, Medicine, radiology and radiological sciences, MUSC.

35 Prevention of CVC VTes in the PICU and the PCICU
   Gabriel Clinton, Zachary Coffman, MD; Jordan Newman, MD, Elizabeth Mack, Medicine, Pediatrics, MUSC.

36 Radiofrequency wire technique and image fusion in the creation of an endovascular bypass to treat chronic central venous occlusion
   Dominic Giovagnoli, Ricardo Yamada, Medicine, Radiology, MUSC.

37 Preferential Effect of Cigarette Smoke on Cartilage Tissue Area During Fracture Healing
   Elizabeth Nadeau, Russell Reeves, Ryan Kelly, Glenn Hefter, Yongren Wu, William Barfield, Amanda LaRue, Vincent Pellegrini, Medicine, Orthopaedics, MUSC.

38 Iatrogenic right bundle branch block after alcohol septal ablation does not negatively impact right ventricular function and pulmonary pressures
   Mary Lark, Ahmadreza Karimianpour, Davis Leaphart, Courtney Kramer, Christopher Nielsen, Michael Gold, Valerian Fernandes, Medicine, Department of Cardiology, MUSC.

39 Emergency Provider Adherence to Chronic Disease Guidelines: A Prospective Provider Inquiry
   Jonathan Boland, Amy Walquist, Tyler Winders, Medicine, Emergency Medicine, MUSC.

40 Hypoxia and Pressure-Induced Cellular Injury to Human Neurons and Astrocytes
   Samuel Jones, Charlotte Snook, Ramin Eskandari MD, Michael Smith, Medicine, Department of Neurosurgery, MUSC.

41 Comparison of Landmark and Ultrasound-Guided Knee Arthrocentesis in a Cadaver Model
   Lauren Rocco, Christopher Robinson, Danika Brodak, Amy Wahquist, Steven Kubalak, Aalap Shah, Brad Presley, Ryan Barnes, Medicine, Emergency Medicine, MUSC.

42 Association of Bronchiectasis and the Microbiome with Gastroesophageal Reflux in Alpha-1 Antitrypsin Deficiency
   Madeline Bonaguro, Charlie Strange, Medicine, Pulmonology, MUSC.

43 Feasibility and Safety of using TheraBracelet during Task-Practice Therapy
   Hannah Cox, Mary L Hall, Amanda Vatinno, Michelle L Woodbury, Na Jin Seo, Health Professions, Department of Health Professions, MUSC.

44 Identification of Risk Factors for Increased Perioperative Bleeding with Surgical Dilation and Evacuation
   Dominique Williams, Bethany J. Wolf, William Ellison, William Fowler, Erick Woltz, Angela Dempsey, Sylvia Wilson, Medicine, Anesthesia and Perioperative medicine, MUSC.

45 Impact of TheraBracelet on Cortical Activity in Stroke Survivors
   Allison Davis, Leonardo Bonilha, Jeremy Bose, Alexandra Wease, Na Jin Seo, Health Professions, Department of Health Professions, MUSC.
Group B 10:30 – 12:00 PM

124 Tendon Rupture Due to Implant Prominence of Volar Locking Plates  
Cody Ashy, Andrew Ence MD, Andrew Leggett, William Barfield PhD, Eric Angermeier MD, Kyle Kokko, Medicine, Orthopaedics, MUSC.

125 Myelination of Human Spiral Ganglion Neurons  
Annemarie Lam, Bradley A. Schulte, PhD, Hainan Lang, Medicine, Pathology and Laboratory Medicine, MUSC.

126 Comparison of BPE and Mammographic Breast Density Between Patients with Cancer and with Negative/Benign MRI  
Caroline Spitznagel, Rebecca Leddy, Susan Ackerman, Madelene Lewis, Abid Irshad, Dag Pavic, Medicine, Radiology, MUSC.

127 Driving high reliability with adjunct CLABSI prevention bundles in pediatric hematology/oncology patients  
Danielle Fishman, Jessica LaChance RN, Elizabeth Mack, Medicine, Pediatric Critical Care, MUSC.

128 Characterizing the Effect of Predator Odor Exposure in C57BL/6J Mice  
India Robinson, Courtney King, Marcelo Lopez, Howard Becker, Medicine, Psychiatry and Behavioral Sciences, MUSC.

129 Effects of Cigarette Smoke Exposure on the Mechanical Strength of Femur Fracture Healing  
Ryan Walsh, Yongren Wu, Russell Reeves, Glenn Heftier, Elizabeth Nadeau, Elizabeth Lee, William Barfield, Vincent Pellegrini, Medicine, Orthopedics, MUSC.

130 Medical Imaging in Esophageal Crohn’s Disease: A Rare Cause of Dysphagia  
Andrew Westberry, John Hughes, MD, Meryle Eklund, MD, Medicine, Department of Radiology, MUSC.

131 Treating Lung Cancer with Oncolytic Virus Understanding the efficacy of myxoma virus against NSCLC derivative A9-F1  
Stephen Sauer, Mee Bartee, Chase Burton, Parker Dryja, Erica Flores, Cody Gowan, Eric Bartee, Medicine, Microbiology and Immunology, MUSC.

132 Cardiac Myeloid Sarcoma: A Rare Mediastinal Mass  
Courtney Wiley, Joseph Kovacich, Meryle Eklund, Medicine, Radiology, MUSC.

133 Freezing of Gait on Dopamine Treatment affects Quality of Life in Parkinson’s disease patients  
Katherine Teague, Gonzalo Revuelta, Medicine, Department of Neurology, MUSC.

134 Unilateral Cochlear Nerve Aplasia with a Variant Trigeminal Nerve V3 Origin: A Case Report  
Elizabeth Rhodes, Samuel Volin, M.D., Arindam Chatterjee, M.D., Medicine, Radiology and Radiological Science, MUSC.

135 Genetic Analysis of Leber Congenital Amaurosis and Early Onset Retinal Dystrophy in Costa Rican Children: A High Prevalence of Biallelic RPE65 mutations  
Andre Bourg, Bailey Glen PhD, Joaquin Martinez MD, Ramses Badilla MD, Daynna Wolff PhD, Iya Znoyko PhD, R. Porras PhD, Robert Wilson PhD, Gary Hardiman PhD, M., Mae Millicent W. Peterseim MD, Medicine, Ophthalmology, MUSC.

136 Determining the importance of stereochemistry in the design of peptide siRNA-carriers for oral cancer therapy  
Travis Hedrick, Andrew Jakymiw, Dental Medicine (DMD, PhD), Oral Health Sciences, MUSC.
Group A 8:30 – 10:00 AM

46 Cigarette Smoke Exposure Preferentially Impairs Endochondral Fracture Healing: Micro-CT Analysis
   Glenn Heftcr, Russell A. Reeves M.D., Yongren Wu PhD., Elizabeth Nadeau MS, Ryan Walsh MS, William R. Barfield PhD.,
   Hai Yao PhD, Vincent D. Pellegrini Jr., Graduate Studies, Orthopaedics and Physical Medicine, MUSC.

47 Relationship between Diffusion Properties and Tissue Calcification in Human Cartilage Endplate
   Pengling Ren, Peng Chen, Barton L. Sachs, Haijun Niu, He Gong, Charles Reitman, Hai Yao, Yongren Wu, Graduate Studies,
   Orthopaedics and Physical Medicine, MUSC.

48 The Interaction Between Prpf8 and Dzip1 and its Role in Mitral Valve Prolapse
   Janiece Glover, Russell Norris, Graduate Studies, Regenerative Medicine and Cell Biology, MUSC.

49 Radiology Perspective of Fibrolamellar Hepatocellular Carcinoma: A Case Report
   Elisabeth A Sidden, Lara Hewett, Meryle J Eklund, Medicine, Pediatric Radiology, MUSC.

50 Functional Effects of Adductor Canal Block Versus Femoral Nerve Block for Arthroscopic Anterior Cruciate Ligament Repair: A Systematic Review
   Matthew Edwards, Jennifer Hunnicutt PhD, Preston Bethea MD, Sylvia Wilson MD, Harris Slone MD, Shane Woolf,
   Medicine, Department of Orthopaedics, MUSC.

51 Identifying Novel Small Molecules Reducing Serum LDL-C Level in iPSC-derived Hepatocytes
   Cooper Rutland, Dr. Ray Jui-Tung Liu, PhD, Stephen Duncan, Medicine, Department of Regenerative Medicine and Cell Biology, MUSC.

52 Collagen 1A1 gene expression levels in resected skin predict acute wound healing complications after skin reduction procedures
   Anna Skochdopole, D Mullner, J Heyward, F Herrera, C Feghali-Bostwick, MB Armstrong, Adeyemi Ogunleye, Medicine,
   MUSC Plastic Surgery Department, MUSC.

53 Correlates of Hearing Loss in Children with Osteogenesis Imperfecta
   Camille Sluder, Dani Inglesby, Yuan Liu, Ted Meyer, Medicine, ENT, MUSC.

54 Alcohol Septal Ablation Produces Similar Changes to CBC as Atherosclerotic Myocardial Infarction Without Evidence of Platelet Activation. Is There Less Inflammation With ASA?
   Billy Mullinax, Davis Leaphart, Mira Patel, Alex Canova, Ashley Waring, Christopher Nielsen, Valerian Fernandes,
   Medicine, Cardiology, MUSC.

55 Withdrawn

56 Saddle pulmonary embolism and in-hospital mortality in patients with cancer
   Irene Ruiz, Ashley Prentice, Erin Weeda, Pharmacy, College of Pharmacy, MUSC.

57 A Population Health Approach to Measuring the Impact of a State-wide Tele-Stroke Program
   Cory Robinson, Jillian I. Harvey, Steven M. Delimbo, Ellen Debenham, Christine A. Holmstedt, Kit N. Simpson, Dee W.
   Ford, Annie Simpson, Health Professions, Dept of Healthcare Leadership & Management, MUSC.

Group B 10:30 – 12:00 PM

137 Effect of Tele-Consenting on Consent Quality and Decision Making in a Population of African Americans with and without Systemic Lupus Erythematosus
   Trevor Faith, Jihad Obeid, Kit Simpson, Diane Kamen, Health Professions, Department of Medicine, Division of Rheumatology and Immunology, MUSC.

138 Modulating intracellular complement to reduce inflammation post ischemia reperfusion injury
   Tara Sweeney, Caroline Wallace, Victoria Spadafora, Carl Atkinson, Satish Nadig, Medicine, Department of Surgery, Lee Patterson Allen Transplant Immunology, MUSC.
139 Effect of scan substrates on accuracy of 7 intraoral digital impression systems using human maxilla model
Chris Bocklet, Jansen Nash, Anthony Mennito, Thierry Bacro, Jason Latham, Zachary Evans, Mark Ludlow, Abigail L. Kelly, Sarandeep Huja, Wally Renne, Dental Medicine, Department of Oral Rehabilitation, MUSC.

140 Molecular Mechanism of Transglutaminase in Controlling Collagen Fiber Morphology in Periodontal Disease
Dylan Brown, Amy Bradshaw, Dental Medicine, Medicine, MUSC.

141 Accuracy of Optical Surface Scanning of Intraoral Mucosal Tissue and Surfaces
Roy Faulks, Zachary Evans, Dental Medicine, Assistant Professor - Department of Stomatology, Division of Periodontics, MUSC.

142 Developing a novel bipedal device and paradigm to investigate the neural circuits involved in lower extremity movement
John McLeod, Logan T. Dowdle, Daniel H. Lench, Ryan Downey, Ph.D., Christopher M. Gregory, Ph.D., Colleen Hanlon, Medicine, Psychiatry and Behavioral Sciences, MUSC.

143 Complement Peptide C3a Induces Mitochondrial Dysfunction and Respiration-Linked Cell Death in Candida Glabrata
Jessica Dinh, Hailey Kinsland, William Linder, SarahRose Hall, Silva Vaena, Caroline Westwater, Dental Medicine, Oral Health Sciences, MUSC.

144 Compliance Rates of Physician-Prescribed Deep Vein Thrombosis Prophylactic Mechanical Devices in Orthopaedic Patients
Jacob Balmer, William Barfield, PhD, Harry Demos, Medicine, Department of Orthopaedics, MUSC.

145 Twin beam dual-energy vs single-energy on a novel PET-dual energy CT: Phantom study and clinical validation.
Logan Jackson, Carlo De Cecco, Leoni Gordon, Philip Burchett, Marcus Bradshaw, Domenico De Santis, Joseph Schoepf, Medicine, Radiology and Radiological Science, MUSC.

146 Use of Daily Goals Sheets on a Medicine Ward to Facilitate Nurse-Physician Communication
Cole Buchanan, Kathleen Fowler R.N., Kevin Baker M.D., William Shelley, Medicine, MUSC Dept of Internal Medicine, MUSC.

147 Retrospective assessment of texture analysis parameters in abdominal lesions
Neil Shah, Melissa Picard, Mark Kovacs, Brian Flemming, Kyle Freeman, Andrew Hardie, Medicine, Department of Radiology, MUSC.

148 Impact of leveraging technology in the ambulatory care setting in a Veterans affairs medical center
Ashley Prentice, Veldana Nuhi, Pharmacy, Ralph H Johnson VA Medical Center, MUSC.

149 Satisfaction With Telehealth Pharmacy Precepting in an Interprofessional Clinical Practice Setting.
James Gerrald, Setu Shah, Hannah Green, Dr. Erin Weeda, and Dr. David Shirley, James Sterrett, Pharmacy, College of Pharmacy, MUSC.
Group A  8:30 – 10:00 AM

58  Motor Outcome After Early Surgery for Infants Less than 12 months of age with Congenital Heart Defects: A Systematic Review
    Turki Aljuhani, Heather Shaw Bonilha, Sinai Zyblewski, Dorothea Jenkins, Patricia Coker-Bolt, Health Professions, Occupational Therapy, MUSC.

59  The Art of Compassionate Patient Care: A Collaboration between the Medical University of South Carolina and the Gibbes Museum of Art
    Brooke Mulrenin, Rebecca Hiester, Elise Detterbeck (Gibbes Museum faculty), Cynthia Dodds, Health Professions, College of Health Professions; Division of Physical Therapy, MUSC.

60  Novel Pain Relievers: A Sham-Controlled Neuroimaging Study Evaluating the Relative Efficacy of Medial Versus Dorsolateral Theta Burst Stimulation
    Logan Dowdle, Julia Imperatore, Sarah Hamilton, Mark George, Jeffrey Borckardt, Colleen Hanlon, Graduate Studies, Psychiatry and Behavioral Sciences, MUSC.

61  Brain Volume Abnormalities and Blunted Reactivity to Reward Associated with Externalizing Behaviors among School-age Children
    Emilio Valadez, Matthew Fadus, Lindsay Squeglia, Medicine, Psychiatry and Behavioral Sciences, MUSC.

62  Inventing and optimizing a portable neuromodulatory device for quickly measuring consciousness
    Kevin Caulfield, Philipp M. Summers, Xingbao Li, Matthew T. Savoca, Matteo Fecchio, Silvia Casarotto, Marcello Massamini, Mark George, Graduate Studies, Psychiatry, Radiology, and Neuroscience, MUSC.

Group B  10:30 – 12:00 PM

150  Difference in First and Second Swallows During Modified Barium Swallow Studies
    Janet Horn, Annie Simpson, Heather Bonilha, Health Professions, Health Sciences and Research, MUSC.

151  Breast Cancer Survivors’ Unmet Needs after Completion of Cancer Treatment including Radiation Therapy
    Michelle Pembroke, Julie Bradley, MD, Associate Professor, University of Florida Radiation Oncology, Lynne Nemeth, Nursing, Professor, College of Nursing, MUSC.

152  Care-coordination Approach to Learning Lupus Self-Management (CALLS)
    Ashley White, Trevor Faith, Dr. Ramesh Ramakrishnan, Dr. Jim Oates, Edith Williams, Graduate Studies, Assistant Professor, MUSC.

153  Withdrawn
**Group A  8:30 – 10:00 AM**

63  **Population attributable ratio for assessing dominant modifiable risk factors of stroke using case-control data**  
Fedelis Mutiso, Gebregziabher Mulugeta, Graduate Studies, Public Health Sciences, MUSC.

64  **A 'Duel' of Complements**  
Nathaniel Parsons, Balasubramaniam Annamalai, Elisabeth Obert, Gloriane Schnabolk and Stephen Tomlinson, Baerbel Rohrer, Graduate Studies, Ophthalmology, MUSC.

65  **High-fat diet-induced hyperinsulinemia reduces brain insulin levels and impairs tactile recognition**  
Luke Watson, Dominique Williams, Janet Boggs, Catrina Sims-Robinson, Graduate Studies, Neurology, MUSC.

66  **Effect of Theta-Burst Stimulation Dose on Motor Cortex Excitability: a parametric evaluation of 600, 1200, 1800 pulses per session**  
Daniel McCalley, Daniel H. Lench, Jade D. Doolittle, Sarah Hamilton, Will DeVries, Colleen Hanlon, Graduate Studies, Psychiatry, MUSC.

67  **Risk of substance abuse onset in adults diagnosed with epilepsy or migraine.**  
Stephanie Jones, Dulaney Wilson, Jeffrey Korte, Graduate Studies, Public Health Sciences, MUSC.

68  **Calpain Inhibitor Prevents Noise-induced Hair Cell Loss through Upregulation of p-Akt Signaling**  
Qiaojun Fang, Ruosha Lai, Song Pan, Khujista Haque, Suhua Sha, Graduate Studies, College of Medicine, MUSC.

69  **Characterization of Extracellular Matrix Dysregulation and PTM patterns in Congenital Aortic Valve Stenosis using MALDI Imaging Mass Spectrometry**  
Cassandra Clift, Richard R. Drake, Peggi Angel, Graduate Studies, Cell and Molecular Pharmacology and Experimental Therapeutics, MUSC.

**Group B  10:30 – 12:00 PM**

154  **Utility of EEG in predicting recovery after stroke**  
Amanda Vatinno, Na Jin Seo, Health Professions, Occupational Therapy, MUSC.

155  **Regulation of the Cell-cell Junction Associated RNAi Machinery in Colon Cancer**  
Amanda Daulagala, Lauren Rutledge, Mary C Bridges, Joyce Nair Menon, Antonis Kourtidis, Graduate Studies, Regenerative Medicine and Cell Biology, MUSC.

156  **A Logic Ensemble Model for Identification of Interactions Associated with Continuous Disease Phenotypes**  
Sherry Livingston, Dr. Gary Hardiman, Bethany Wolf, Graduate Studies, Public Health Sciences, MUSC.

157  **Geographic Distribution and Risk of Upper Urothelial Carcinomas in Croatia, 2001-2011**  
Danira Medunjanin, Zdenko Sonicki, Ante Cvitkovic, Sara Wagner Robb, John Vena, Graduate Studies, Department of Public Health Sciences, MUSC.

158  **Modeling Birth Outcomes and Food Security: A comparison of skew-normal and skew-t regression models in frequentist and Bayesian frameworks**  
Carter Allen, Brian Neelon, Graduate Studies, Public Health Sciences, MUSC.

159  **Modeling Space-Time Variation in Mild Cognitive Impairment and Alzheimer’s Disease Incidence**  
Daniel Baer, Andrew Lawson, Graduate Studies, Public Health Sciences, MUSC.

160  **Development of a Peptide-Derived Orally-Active Kappa Opioid Agonist as a Novel Analgesic**  
Tyler Beck, Carmela M. Reichel, Kristi L. Helke, Patrick M. Woster, Thomas Dix, Medicine (MD, PhD), Drug Discovery & Biomedical Sciences, MUSC.
SPARC Produced by Bone-Marrow Derived Cells Contributes to Myocardial Fibrosis
Hannah Riley, Ryan R. Kelly, Lindsay T. McDonald, An O. Van Laer, Catalin F. Baicu, Amanda C. LaRue, Michael R. Zile, Amy Bradshaw, Graduate Studies, Dept. of Medicine, Dept. of Oral Health Sciences, Ralph H. Johnson Dept. of Veteran’s Affairs, MUSC.
<table>
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<tr>
<th>Group A</th>
<th>8:30 – 10:00 AM</th>
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</table>
| 71      | Cilia Independent and Dependent Roles of PDGFRα in Mitral Valve Development and Disease  
Kelsey Moore, Diana Fulmer, Lilong Guo, Janiece Glover, Rebecca Stairley, Russell Norris, Graduate Studies, Regenerative Medicine & Cell Biology, MUSC. |
| 72      | Using novel genetic tools to elucidate the role of NPAS4 in drug addiction  
Brandon Hughes, Christopher Cowan, Graduate Studies, Neuroscience, MUSC. |
| 73      | Evaluation of the Association between Serum 25-hydroxy-vitamin D (25(OH)D) and Inflammatory Cytokines in Pregnant Women  
Aastha Khatiwada, Bethany Jacobs Wolf, Carol Wagner, Graduate Studies, Pediatrics - Neonatology, MUSC. |
| 74      | Age-Related Alterations in Resident Macrophage Activity in the Cochlear Lateral Wall  
Kenyaria Noble, Ting Liu, Annemarie Lam, Jeremy L. Barth, Bradley A. Schulte, Hainan Lang, Graduate Studies, Pathology and Laboratory Medicine, MUSC. |
| 75      | Autistic-like behaviors and increased microglial activation in a mouse model of MEF2C Haploinsufficiency Syndrome  
Catherine Bridges, Adam Harrington, Kayla Blankenship, Jennifer Cho, Evgeny Tsvetkov, Ahlem Assali, Christopher Cowan, Graduate Studies, Neuroscience & Psychiatry, MUSC. |
| 76      | Preliminary characterization of the protein kinase C subtypes in mediation of sFlt1 release in human placental trophoblasts  
Rebecca Chow, Jiawu Zhao, Timothy Lyons, Jeremy Yu, Graduate Studies, Endocrinology, MUSC. |
| 77      | Dynorphin-containing neurons in the Central Amygdala-BNST circuit contribute to binge ethanol drinking in mice.  
Harold Haun, Howard Becker, Graduate Studies, Psychiatry, MUSC. |
| 78      | Supervised dimension reduction using Bayesian Hierarchical Modeling: a simulation study and application to ambient air pollutants  
Ray Boaz, John Pearce, Andrew Lawson, Graduate Studies, Public Health Sciences, MUSC. |

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<tr>
<th>Group B</th>
<th>10:30 – 12:00 PM</th>
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</table>
| 162     | A Novel Platform for N-Glycoprotein Cancer Biomarker Discovery from Biological Samples by Mass Spectrometry Imaging of Antibody Arrays  
Alyson Black, Connor West, Peggi Angel, Richard Drake, Anand Mehta, Graduate Studies, Cell and Molecular Pharmacology, MUSC. |
| 163     | Knot Specification for Imputation of Missing Longitudinal Variables  
Virginia Shipes, Renée H. Martin, Yuko Palesch, Graduate Studies, Department of Public Health, MUSC. |
| 164     | Hypothesis Testing Framework for Dichotomization  
Peter Greene, Beth Wolf, Graduate Studies, Department of Public Health Sciences, MUSC. |
| 165     | The Role of HSC-Derived Osteogenic Progenitors in Fracture Repair  
Nathaniel Jensen, Ryan Kelly, Amanda LaRue, Graduate Studies (MSTP), Department of Pathology and Laboratory Medicine, MUSC. |
| 166     | DPP-4-Cleaved SDF-1b Diminishes Migration and Osteogenic Differentiation Capacities of Bone Marrow Mesenchymal Stem Cells  
Ahmed Elmansi, Khaled Hussein, Brian Volkman, Galina Kondrikova, Wendy Bollag, Sadanand Fulzele, Xingming Shi, Meghan Mcgee-Lawrence, Mark Hamrick, Carlos Isales, Sudharsan Periyasamy-Thanavanan, William Hill, Graduate Studies, Pathology and Laboratory Medicine, MUSC. |
| 168     | Using Survivors’ Voices to Guide the Identification and Care of Trafficked Persons by U.S. Healthcare Professionals: A Systematic Review  
Stephanie Armstrong, V. Jordan Greenbaum, MD, Stephanie Armstrong, Nursing, College of Nursing, MUSC. |
Uncoupling of p97 ATPase activity has a dominant negative effect on protein extraction from chromatin

Halley Rycenga, Kelly Beagan, David Long, Graduate Studies, Biochemistry and Molecular Biology, MUSC.
Session 9  
Postdoc / Resident / Fellow / Staff Scientist  I  
Harper Center Gym

**Group A  8:30 – 10:00 AM**

79 Pathogenic role of SAT1 variants in monogenic lupus  
Lingxiao Xu, Betty P Tsao, Medicine, Rheumatology & Immunology, MUSC.

80 Structural evaluation of resistance mechanism in N. gonorrhoeae against extended-spectrum cephalosporins  
Avinash Singh, Robert A Nicholas, Christopher Davies, Graduate Studies, Department of Biochemistry and Molecular Biology, MUSC.

81 Palmitic acid diet-induced steatohepatitis model in adult zebrafish  
Ki-Hoon Park, Seok-Hyung Kim, Medicine (MD, PhD), Medicine, Regenerative Medicine and Cell Biology, MUSC.

82 Autologous Regulatory T Cell Transplantation Enhances Bone Repair in a Mouse Model of Osteogenesis Imperfecta  
Inhong Kang, Paramita Chakraborty, Shilpak Chatterjee, Uday Baliga, Shikhar Mehrotra, Medicine, Pathology and Laboratory Medicine, MUSC.

83 Management of acute pancreatitis in pediatric patients: Five year experience following NASPGHAN guidelines  
Abdul Shahein, Susan Baker, MD PhD, Candi Jump, DO, Ricardo Arbizu, MD, Johanna Palmadottir, MD, Nagraj Kasi, MD, J. Antoni Quirós, Medicine, Pediatric Gastroenterology and Nutrition, MUSC.

84 Subcortical Envelope Representations But Not Age Predict Speech-In-Noise Recognition  
Carolyn McClaskey, James W. Dias, Kelly Harris, Medicine, Otolaryngology - Head and Neck Surgery, MUSC.

85 Space Diffusion Syndrome: ATP Synthase as a potential drug Target to ameliorate the health of Astronauts.  
Willian da Silveira, Renaud, Ludivine; Chan, Sherine S.L.; Costes, Sylvain V.; Beheshti, Afshin., Gary Hardiman, Medicine, Public Health, MUSC.

86 Novel Doxorubicin-resistant Angiosarcoma Cell Line Demonstrates Resistance to Multiple Anti-tumorigenic Treatments In Vivo  
Denise Garcia, Eleanor Hilliard, Nicholas Major, Ingrid Bonilla, Nancy Demore, Patrick Nasarre, Medicine, Surgery, MUSC.

**Group B  10:30 – 12:00 PM**

167 Podocyte Development and Function Depends on Primary Cilia and the Exocyst Complex  
Ashish Solanki, Ehtesham Arif, Matthew Sampson, Deepak Nihalani, Joshua Lipschutz, Medicine, MUSC.

170 Predictors of improved naming ability in chronic stroke survivors after intensive aphasia therapy  
Alexandra Basilakos, Lisa Johnson, Brielle C. Stark, Leonardo Bonilha, Chris Rorden, Julius Fridriksson, Medicine, USC Communication Sciences and Disorders, MUSC.

171 Implicit Bias in Elementary Education Disciplinary Practices  
Matthew Fadus, Emilio A Valadez, Lindsay Squeglia, Medicine, Department of Psychiatry and Behavioral Sciences, MUSC.

172 High Flow Nasal Cannula: Too Much Flow for the Floor?  
Madeleine Genevreux, Morgan Sims, MD, Ian Kane, Medicine, Pediatrics, MUSC.

173 Uses of Point-of-Care ultrasound (POCUS) in a Rural Hospital in Western Uganda and How it Changes Patient Management  
Danika Brodak, Brad Presley, MD Kyle Emberton, MD, Lacey MenkinSmith, Medicine, Emergency Department, MUSC.

174 Heme Oxygenase 1 Targeting by a Cytotoxic Isoflavone as a Determinant of Lung Cancer Sensitivity.  
Leilei Zhang, Kenneth Tew, Pharmacy, Dept. of Cell & Molecular Pharmacology, MUSC.

175 Smoking-induced Emphysema in the uPARAP-null Mouse  
Sarah Stephenson, Carole Wilson, Medicine, Medicine, MUSC.

176 Survival and Apoptotic Functions of PDI are Redox Dependent  
Shweta Singh, Danyelle Townsend, Pharmacy, Department of Drug Discovery and Biomedical Sciences, MUSC.
87 Which Electrode Position is Best for Closed-Loop Transcutaneous Auricular Vagus Nerve Stimulation (taVNS) to Enhance Oromotor Learning Development of Impaired Infants.
Daniel Cook, Bashar W. Badran, Will H. DeVries, Morgan M. Dancy, Georgia M. Mappin, Mark S. George, Dorothea Jenkins, Medicine, Neonatology, MUSC.

88 Vagus Nerve Stimulation Effects in an AAV6 ß-Synuclein Rat Model of Parkinson's Disease
Luis Aponte Cofresi, Ariana Farrand, Rebecca Gregory, Heather Boger, Graduate Studies, Neuroscience, MUSC.

89 Transcutaneous Auricular Vagal Nerve Stimulation (taVNS) Paired with Feeding Coordination in Infants with Brain Injury
Georgia Mappin, Bashar W. Badran, Will H. DeVries, Morgan Dancy, Daniel Cook, Mark S. George, Dorothea Jenkins, Medicine, Neonatology, MUSC.

90 The Effects of Brain Stimulation on Social Skills Training in Autistic Adolescents
Delenn Solis, Laura Carpenter, Frampton Gwynette, Jeffrey Borckardt, Laura Lohnes, Jane Joseph, Graduate Studies, Neuroscience, MUSC.

91 Effect of Novel SET-targeting Compounds on SET/PP2A Association
Alexis Carey, Ryan M. DePalma, Besim Ogretmen, Graduate Studies, Biochemistry and Molecular Biology, MUSC.

92 Importance of antibody-dependent cell-mediated cytotoxicity to Age Related Macular Degeneration
Crystal Nicholson, Alex Woodell, Bryan Jones PhD, Carl Atkinson PhD, Baerbel Rohrer, Graduate Studies, Storm Eye Institute Ophthalmology, MUSC.

93 Just Say Know: Rethinking Drug Prevention Programs
Anna Maralit, Claudia Salazar, Lindsay Meredith, Suzanne Thomas, Sylvia Rivers, Lindsay Squeglia, Medicine, Psychiatry and Behavioral Sciences, MUSC.

177 Investigation into the Role of Serotonylation in the Cardiac Micro-Environment
Nicolas Shealy, Yuhua Zhang, Michael Zile M.D., Amy Bradshaw, Graduate Studies, Cardiology, MUSC.

178 The Immune Profile of Circulating Fibroblast Precursors in High Fat Diet fed Mice
Darian Thomas, Sara J. Sidles, Amanda LaRue, Graduate Studies, Department of Pathology and Laboratory Medicine; Ralph H. Johnson VA Medical Center Research Services, MUSC.

179 NDST-1 Expression as a Candidate for Preferential Viral Binding of Myxoma to the Basal Epithelium
Erica Flores, Eric Bartee, Graduate Studies, Microbiology & Immunology, MUSC.

180 The role of mitochondria ROS in podocyte damage during salt-sensitive hypertension
Mark Domondon, Regina Sultanova, Elizaveta Kurashkina, Iuliia Polina, Kareem Heslop, Eduardo Maldonado, Daria Ilatovskaya, Medicine, Medicine/Nephrology, MUSC.

181 Blockade of the TIM-3 T cell Checkpoint Improves Oncolytic Virotherapy
Cody Gowan, Cody C. Gowan, Kati Baillie, Mee Y. Bartee, Eric Bartee, Graduate Studies, Microbiology and Immunology, MUSC.

182 Characterization of Pericytes from Normal and Idiopathic Pulmonary Fibrosis (IPF) Human Lungs
Seth Bollenbecker, Sarah Falta, Sarah Stephenson, Carole Wilson, Lynn Schnapp, Medicine, Medicine, MUSC.
### Session 11  Undergraduate II  EL 104

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<th>Session</th>
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<tr>
<td>12:45 - 1:00</td>
<td>183</td>
<td>Injury Site-Targeted Complement Inhibition Improves Motor &amp; Cognitive Recovery after Murine Ischemic Stroke</td>
<td>Zachary Berry, Amer Toutonji, Michael Holers, Stephen Tomlinson, Graduate Studies, Microbiology and Immunology, MUSC.</td>
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<tr>
<td>1:00 - 1:15</td>
<td>184</td>
<td>Novel Drug Delivery Strategies to Improve Delivery of Anticancer Drugs Across the Blood-Brain Barrier to Treat Glioblastoma</td>
<td>Adriana Carter, William A. Vandergrift III, Scott M. Lindhorst, Abhay K. Varma, Libby Infinger, Sunil J. Patel, David Cachia, Krista Cornehl, Arabinda Das, Medicine, Neurosurgery, MUSC.</td>
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<tr>
<td>1:15 - 1:30</td>
<td>185</td>
<td>Combination of O6-Benzylguanine, MGMT, and CDK 4/6 inhibitor or TGF-beta inhibitor Increases TMZ-Resistivity in Glioblastoma Cells</td>
<td>Indira Kanginakudru, Arabinda Das, Medicine (MD, PhD), Department of Neurosurgery, MUSC.</td>
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<tr>
<td>1:30 - 1:45</td>
<td>BREAK</td>
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<tr>
<td>1:45 - 2:00</td>
<td>186</td>
<td>Higher-Order Chromatin Organization of the Rat Tox3 Breast Cancer Susceptibility Locus</td>
<td>Kimberly King, Bart Smits, Graduate Studies, Department of Pathology &amp; Laboratory Medicine, MUSC.</td>
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<tr>
<td>2:00 - 2:15</td>
<td>187</td>
<td>Maternal Marijuana use with and without the use of Opioids and their Effects on Infant Morphine Treatment</td>
<td>Tatiyana Adkins, Dr. Price Ward, Dr. Dorothea Jenkins, Medicine, Neonatology, MUSC.</td>
<td></td>
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<tr>
<td>2:15 - 2:30</td>
<td>188</td>
<td>A survey assessing patient self-reported frequency and severity of medication side effects and non-adherence in organ transplant recipients</td>
<td>Anushka Fernandes, Erika Andrade, Satish Nadig, David Taber, Medicine, Transplant Surgery, MUSC.</td>
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12:00 - 12:15

189 Stroke Lesions and Behavioral Patterns Correlate with Severity of Post-Stroke Limb Spasticity
Colin Smith, Dr. Pratik Chhatbar, Dr. Eyad Allmallouhi, Wayne Feng MD MS, Medicine, Vascular Neurology, MUSC.

12:15 - 12:30

190 Attenuation of Fibroblast Differentiation by the Inhibition of TGF-b Signaling in a Murine Model of Thoracic Aortic Aneurysm
Caroline Besley, Christine Couch, Tyler Grespin, Elizabeth K. Nadeau, Robert E. Stroud, Rupak Mukherjee, PhD, Jeffrey A. Jones, Medicine, Division of Cardiothoracic Surgery, MUSC and Research Service of the Ralph H. Johnson Veterans Affairs Medical Center, Charleston, SC.

12:30 - 12:45

191 Mechanical Regulation of microRNA Abundance
Camila Villacreses, Adam Akerman, Walker Blanding, Christine Couch, Robert Stroud, Rupak Mukherjee, Jeffrey Jones, Medicine, Cardiothoracic Surgery, MUSC.

12:45 - 1:00

192 Hematopoietic Cells in Healthy and Myxomatous Mitral Valves
Isabela Visintin, Ray Deepe, Emilye Hiriart, Andy Wessels, Medicine, Department of Regenerative Medicine and Cell Biology, MUSC.

1:00 - 1:15

193 Long-term impact of acute stress on cognition, anxiety, and reinstated heroin seeking in male and female rats
Jordan Carter, Angela Kearns, Rachel Weber, Carmela Reichel, Medicine, Neuroscience, MUSC.

1:15 - 1:30

194 Burnout in Radiologists Practicing in South Carolina
Roy Smith, Madeleine Lewis, Medicine, Radiology, MUSC.

1:30 - 1:45 BREAK

1:45 - 2:00

195 Importance of Sleep Quality in Patients with Lupus: A Cross-Sectional Study
Alexandra Schwab, Sarah Fox, Diane Kamen, MD, MSCR, Medicine, Department of Rheumatology, MUSC.

2:00 - 2:15

196 Statin-Dependent Decrease in Mitochondrial Metabolism in Cancer Cells is not Mediated by Changes in Cellular or Mitochondrial Cholesterol Content
Diana Fang, Charlye Christie, Elizabeth Hunt, Amandine Rovini, Morgan Morris, Kareem Heslop, Gyda Beeson, Craig Beeson, Eduardo Maldonado, Medicine, Drug Discovery and Biomedical Sciences, MUSC.

2:15 - 2:30

198 Oncolytic Myxoma virus synergizes with standard of care for treatment of glioblastoma multiforme
Chase Burton, Arabinda Das, Daniel McDonald, William A. Vandergrift III, Sunil J. Patel, Davic Cachia, Eric Bartee, Graduate Studies, Microbiology and Immunology, MUSC.

2:30 - 2:45

199 Dimethylguanidinovaleric Acid is a marker of Liver Fat that Predicts Future Development of Type 2 Diabetes
Jordan Morningstar, John F. O'Sullivan, Qiong Yang, Baohui Zheng, Yan Gao, Sarah Jeanfavre, Justin Scott, Celine Fernandez, Hui Zheng, Sean O'Connor, Paul Cohen, Ramachandran S. Vasan, Michelle T. Long, James G. Wilson, Olle Melander, Thomas J. Wang, Caroline Fox, Randall T. Peterson, Clary B. Clish, Kathleen E. Corey, Robert Gerszten, Medicine, MUSC, Division of Cardiovascular Medicine, Beth Israel Deaconess Medical Center, Boston, MA.

2:45 - 3:00

200 Characterization of Immune Subsets in Osteoarthritis Patients
Molly Sekar, Kiley Lawrence, Matthew Essman, Katie Hurst, Gabriella Santa Lucia, Thomas Valente, Lee Leddy, MD, MSCR, Vincent Pellegrini, Jr., MD; Zeke Walton, MD, Jessica Thaxton, Medicine, Orthopaedics, Microbiology, and Immunology, MUSC.
A prospective observational analysis of near visual acuity in pseudophakic children

Jose Gallegos, Marion Edward Wilson, Medicine, Ophthalmology/Stom Eye Institute, MUSC.
12:00 - 12:15
201 miR-510 mediated negative regulation of Cav1 as a mechanism driving breast cancer disparity
Bobbie Blake, Brooke King, Arabia Satterwhite, Lourdes Nogueira, Victoria Findlay, Medicine, Pathology & Laboratory Medicine, MUSC.

12:15 - 12:30
202 PCBP1 promotes effector T cell functions via repression of regulatory T cell gene programs
Davis Borucki, Ephraim A. Ansa-Addo, Huai-Cheng Huang, Zihai Li, Medicine, Microbiology & Immunology, MUSC.

12:30 - 12:45
203 Quadratus Lumborum versus Transversus Abdominis Plane Nerve Block: A Comparison in Regional Anesthesia Techniques
Logan Hood, Renuka George, Medicine, Anesthesia and Perioperative Medicine, MUSC.

12:45 - 1:00
204 Lymphovascular Space Invasion As an Independent Predictor of Lymph Node Status at a Single Academic Institution
Alex Drohan, E. Green, L.M. Harbin, A. Wahlquist, W.A. Graybill, M.F. Kohler and W.T. Creasman, Laurel Berry, Medicine, Ob/Gyn, MUSC.

1:00 - 1:15
205 Does Early Cerebral Blood Flow in Asphyxiated Neonates Indicate Degree of Neural Injury?
Ann Hill, Leslie Hirsig, Milad Yazdani, Heather Collins, Dorothea Jenkins, Medicine, Pediatrics - Neonatology, MUSC.

1:15 - 1:30
206 Id1 and Id3 are required to maintain steady state hematopoiesis by promoting sinusoidal regeneration
Stephen Gadomski, Satyendra K. Singh, Shweta Singh, Kimberly D. Klarmann, Stephen Seaman, Jonathan Keller, Medicine, Senior Investigator, Mouse Cancer Genetics Program, MUSC.

1:30 - 1:45  BREAK

1:45 - 2:00
207 Assessment of cognitive impairment in various causes of dizziness: Preliminary Report Using the Neuropsychological Vertigo Inventory
Taylor Locklear, Shaun Nguyen MD, Rebecca English DPT, Christine Strange AuD, Habib Rizk, Medicine, Otolaryngology-Neurotology, MUSC.

2:00 - 2:15
208 Novel injury-site targeted complement modulation reverses cognitive deficit 60 days after traumatic brain injury
Farris Langley, Ali Alawieh, Mikaela York, Henry Broome, DeAnna Adkins, Stephen Tomlinson, Medicine (MD, PhD), Microbiology & Immunology, MUSC.

2:15 - 2:30
209 Self-navigated free-breathing radial whole heart magnetic resonance angiography for the assessment of thoracic aorta: Comparison with computed tomography angiography
Robert Stroud, Marly Van Assen, Joseph Schoepf, Davide Piccini, Akos Varga-Szemes, Medicine, Radiology, MUSC.

2:30 - 2:45
210 Commensal Microbiota Influence on Mesenchymal and Hematopoietic Differentiation in Osteoimmunology
Michael Chew, Jessica Hathaway-Schrader, Johannes Aartun, Nicole Poulides, Chad Novince, Dental Medicine, Oral Health Sciences, MUSC.

2:45 - 3:00
211 Evaluation of Surgical Skill and Competency Using Intraoperative Recordings of ENT Procedures.
Kyle Kulbarsch, Charmee Mehta, James Dornhofer, Ted Meyer, Medicine, Department of Otolaryngology, MUSC.

3:00 - 3:15
212 Passive Changes in Muscle Length Reduce Lower Extremity Corticomotor Response to Transcranial Magnetic Stimulation
Benjamin G. Birley, John H. Kindred, Mark G. Bowden, Health Professions, Division of Physical Therapy, MUSC.
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<td>12:15</td>
<td>Smoking Status is Associated with Increased Surgical Complications Following Total Shoulder Arthroplasty</td>
<td>Joshua Wilson, Alyssa Althoff, Sophia Traven, Shane Woolf, Harris Slone, Russell Reeves, Medicine, Orthopaedic, MUSC.</td>
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<td>12:30</td>
<td>Are insured Emergency Department patients more likely to have a regular doctor than those with limited resources?</td>
<td>Emily Wolery, Gregory Hall, Steven Saef, Sarah Katchen, Medicine, Emergency Department, MUSC.</td>
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<td>12:45</td>
<td>Orbital Atherectomy: An Analysis of Demographics and Outcomes Amongst Patients Undergoing Treatment at the Ralph H. Johnson VA Medical Center</td>
<td>Andrew Hill, Milad El-Hajj, Spenser Staub, Courtney Kramer, Valerian Fernandes, Anbukarasi Maran, Medicine, MUSC.</td>
</tr>
<tr>
<td>1:00</td>
<td>Smoking Status is Associated with Increased Complications and Readmission Following Extensor Mechanism Repair</td>
<td>Michael Byrd, Alyssa Althoff, Russell A. Reeves, MD, Sophia Traven, MD, Lee R Leddy, Harris Slone, Medicine, Orthopedics, MUSC.</td>
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<td>1:15</td>
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<tr>
<td>1:45</td>
<td>Preferences in Stapes Surgery among Elite Otologists</td>
<td>Avigeet Gupta, Yuan Liu, Shaun Nguyen, Paul Lambert, Timothy Jung, Medicine, Otolaryngology, MUSC.</td>
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<tr>
<td>2:00</td>
<td>Treatment Options for Acute Noise-Induced Hearing Loss: a Systematic Review and Meta-Analysis</td>
<td>Sina Koochakzadeh, Avigeet Gupta, Shaun Nguyen, Paul Lambert, Medicine, Otolaryngology - Head and Neck Surgery, MUSC.</td>
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<tr>
<td>2:15</td>
<td>Ultra high resolution MR histology Using ROI-extraction and SNR-efficient gradient echo imaging</td>
<td>Joseph Guy, Myfanwy Hill, Robin Franklin, Kevin Brindle, Daniel Reich, Medicine (MD, PhD), National Institute of Neurological Disorders and Stroke, MUSC.</td>
</tr>
<tr>
<td>2:30</td>
<td>The Use of Structurally Augmented 3D Printed Cages in Segmental Defects of the Tibial Shaft</td>
<td>Joseph Tracey, Selene Parekh, Medicine, Orthopaedics, Duke University, MUSC.</td>
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<td>2:45</td>
<td>Complement Modulation in Stroke: Closing the 'Reperfusion Mismatch'</td>
<td>Ali Alawieh, E. Farris Langley, Stephen Tomlinson, Medicine, Microbiology and Immunology, MUSC.</td>
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Session 15  PhD IV  EL 121

12:00 - 12:15
223 Development and Validation of a Multidimensional Experimental Screening Instrument to Measure Multiple Barriers Associated with Individual Dietary Practices: A Secondary Analysis of NHANES Datasets 20
Enia Zigbuo-Wenzler, Enia Zigbuo-Wenzler, Nursing, MUSC.

12:15 - 12:30
224 Shortened ex vivo expansion of Th17 cells enhances anti-tumor immunity
Hannah Knochelmann, Michelle Nelson, Aubrey Smith, Connor Dwyer, Megan Wyatt, Guillermo Rangel Rivera, Daniel Salas-Escabillas, Jacob Bowers, Daniel Neitzke, Mark Rubinstein, Chrystal Paulos, Graduate Studies, Microbiology & Immunology, Dermatology & Dermatologic Surgery, MUSC.

12:30 - 12:45
225 TLR9 agonist, CpG, augments the function and persistence of adoptively transferred CD8+ T cells in a B cell dependent manner
Aubrey Smith, Connor J. Dwyer, Hannah M. Knochelmann, Megan M. Wyatt, Guillermo O. Rangel Rivera, Michelle H. Nelson, Chrystal Paulos, Graduate Studies, Microbiology and Immunology, MUSC.

12:45 - 1:00
226 STAT3 in Pancreatic Fibroblasts Promotes PDAC Tumorigenesis
Julia Lefler, Katie A. Thies, Jason R. Pitarresi, Maria C. Cuitiño, Michael Ostrowski, Graduate Studies, Biochemistry and Molecular Biology, MUSC.

1:00 - 1:15
227 Perfusion of Vascularized Composite Allografts with a Complement Inhibitor Protects Against Brain Death Induced Injury and IRI
M. Mahdi Sleiman, Biao Lei, Qi Cheng, Stephen Tomlinson, Carl Atkinson, Medicine (MD, PhD), Microbiology and Immunology, MUSC.

1:15 - 1:30
228 Inhibiting GARP-TGFbeta axis enhances anti-tumor efficacy of immune checkpoint blockade therapy
Anqi Li, Bill X. Wu, Alessandra Metteli, Shaoli Sun, Zihai Li, Graduate Studies, Microbiology & Immunology, MUSC.

1:30 - 1:45 BREAK

1:45 - 2:00
229 Regulation of RNAi - IncRNA interactions by epithelial adherens junctions
Mary Catherine Bridges, Nair-Menon, Joyce, Antonis Kourtidis, Graduate Studies, Regenerative Medicine and Cell Biology, MUSC.

2:00 - 2:15
230 A New Enzymatic Approach to Distinguish Fucosylation Isomers of N-Linked Glycans in Tumor Tissues Using MALDI Mass Spectrometry Imaging
Connor West, Hongyan Liang, Anand Mehta, Richard Drake, Graduate Studies, Cell and Molecular Pharmacology and Experimental Therapeutics, MUSC.

2:15 - 2:30
231 Identifying ErbB3 as a potential therapeutic target for effectively treating Malignant Peripheral Nerve Sheath Tumors.
Ralph Tanios, Amanda M. Prechtl, Stephen T. Guest, Jody Longo, Stuart Worley, Kent Armeson, Elizabeth Garrett-Mayer, Steven Carroll, Graduate Studies, Pathology, MUSC.

2:30 - 2:45
232 Investigating the molecular mechanism of cephalosporin-resistance in Neisseria gonorrhoeae
Brandon Young, Christopher Davies, Graduate Studies, Biochemistry and Molecular Biology, MUSC.

2:45 - 3:00
233 RAGE signaling as a pharmacological target in Amyotrophic Lateral Sclerosis
Liping Liu, Kelby M. Killoy, Marcelo R. Vargas, Mariana Pehar, Graduate Studies, Department of Pharmacology, MUSC.

3:00 - 3:15
234 Anti-tumor Synergy Between Protein Disulfide Isomerase (PDI) and HDAC Inhibitors is Driven by CHOP and ATF3
Ravyn Duncan, Leticia Reyes, Katelyn Moats, Reeder M. Robinson, Holly A.F. Stessman, Nathan Dolloff, Graduate Studies, Cellular and Molecular Pharmacology and Experimental Therapeutics, MUSC.
235 Transgenic Cas9-Expressing F344 Rat Model Provides Novel Platform for Somatic Gene Editing and Disease Modeling
Lauren Shunkwiler, Jan Guz, Benjamine van Peel, Alexander Awgulewitsch, Bart Smits, Graduate Studies, Pathology and Laboratory Medicine, MUSC.

12:15 - 12:30
236 Development of Inhibitors of KDM4B as a Therapeutic Strategy for Periodontal Disease
Joy Kirkpatrick, Rachel Wilkinson, Jonathan Turner, Patrick Woster, Dental Medicine, Drug Discovery and Biomedical Sciences, MUSC.

12:30 - 12:45
237 New Mutation Found in Mitral Valve Prolapse Dysregulates Wnt Signaling Through Interacting with Î²-catenin Antagonist
Lilong Guo, Katelynn Toomer, Diana Fulmer, Kelsey Moore, Janiece Glover, Rebecca Stairley, Sandra Ramos-Ortiz, Russell (Chip) Norris, Graduate Studies, Regenerative Medicine & Cell Biology, MUSC.

12:45 - 1:00
238 Desert Hedgehog (Dhh) signaling through primary cilia contributes to mitral valve morphogenesis and disease
Diana Fulmer, Toomer Katelynn, Guo Lilong, Moore Kelsey, Glover Janiece, Stairley Rebecca, Moore Reece, Lipschutz Joshua, Russell Norris, Graduate Studies, Regenerative Medicine & Cell Biology, MUSC.

1:00 - 1:15
239 Heterogeneity of Mitochondrial Membrane Potential in Cancer Cells is Independent of the Cell Cycle and Determines Mitochondrial Maximal Hyperpolarization
Morgan E. Morris, Diana Fang, Kareem A. Heslop, Charleston F. Christie, Eduardo Maldonado, Graduate Studies, Drug Discovery & Biomedical Sciences, MUSC.

1:15 - 1:30
240 Novel Method for Systemic Removal of Thermosensitive Liposomal Doxorubicin to Reduce Toxicities
Anjan Motamarry, Marissa A Wolfe, Dieter Haemmerich, Graduate Studies, Pediatrics, MUSC.

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1:45 - 2:00
241 Tamoxifen and Trifluoperazine as a Treatment Option for Malignant Peripheral Nerve Sheath Tumors
Shannon Weber, Longo JF, Brosius SN, Worley S, Steven Carroll, Graduate Studies, Pathology, MUSC.

2:00 - 2:15
242 Diffusion Anisotropy of the Extra-Axonal Environment is Linked to Axon Alignment
Emilie McKinnon, Joseph Helpern, Leonardo Bonilha, Jens Jensen, Graduate Studies (MSTP), Neuroscience, MUSC.

2:15 - 2:30
243 Food for thought: The impact of FGF23 on axonal integrity and neural network architecture.
Barbara Marebwa, Robert J. Adams, Gayenell S. Magwood, Mark Kindy, Janina Wilmskoetter, Myles Wolf, Leonardo Bonilha, Graduate Studies, Neurology, MUSC.

2:30 - 2:45
244 The role of FABP7 upregulation in models of amyotrophic lateral sclerosis
Kelby Killoy, Mariana Pehar, Ben Harlan, Deep Sharma, Marcelo Vargas, Graduate Studies, Pharmacology, MUSC.

2:45 - 3:00
245 Cone Snail Venomics - Evolution-Driven Drug Design
Meghan Grandal, Mickelene Hoggard, Frank Mari, Graduate Studies, Drug Discovery and Biomedical Sciences, MUSC.

3:00 - 3:15
246 An ectonucleotidase CD73 can modulate Porphyromonas gingivalis intracellular growth and survival in the gingival epithelium
Jaden Lee, Nityananda Chowdhury, JoAnn S. Roberts, Ozlem Yilmaz, Dental Medicine, Oral Health Sciences, MUSC.
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<td>Optimizing bone wound healing using BMP2: The addition of a novel nanofiber scaffold</td>
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<td>Emily Durham, R. Nicole Howie, SarahRose Hall, Nicholas Larson, Brayden Oakes, Reed Houck, Zachary Grey, Martin Steed, Amanda C. LaRue, Robin Muise-Helmericks, James Cray, Graduate Studies, Oral Health Sciences, MUSC.</td>
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<td>Establishment of a novel placental barrier model of pre-eclampsia complicated by diabetes</td>
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<td>Rebecca McLeese, Jeremy Yu, Timothy Lyons, Medicine, Endocrinology, MUSC.</td>
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<td>ADAMTS5 is coupled with mechanical load during mandibular condylar development</td>
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<td>Alexandra Rogers, Sarah Cisewski, Christine Kern, Dental Medicine, Regenerative Medicine and Cell Biology, MUSC.</td>
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<td>Mental Imagery Encoding Models Reveal Key Signatures of Inference in an Internal Generative Model</td>
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<td>Jesse Bredlove, Ghislain St-Yves, Thomas Naselaris, Graduate Studies, Neurosciences, MUSC.</td>
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<td>The role of aversion in cocaine addiction</td>
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<td>Maya Eid, Pullmann Dominika, Li Hao, Thomas Jhou, Medicine (MD, PhD), Neuroscience, MUSC.</td>
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<td>Dysmyelination and Disruption of the Nodes of Ranvier in Aged Auditory Nerve</td>
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<td>Clarisse Panganiban, Carolyn M. McClaskey, Kelly C. Harris, Hainan Lang, Graduate Studies, Pathology, MUSC.</td>
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<td>Equivalence of Maximum Likelihood Estimates of Parameters from Complete Distributions using Two Common Approaches for Limit of Detection Data</td>
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<td>Lutfiyya Muhammad, Viswanathan Ramakrishnan, Paul Nietert, Graduate Studies, Public Health Sciences, MUSC.</td>
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<td>Porphyromonas gingivalis Nucleoside-Diphosphate-Kinase Phosphorylates Heat Shock Protein-27 on Serine Residues to Inhibit Programmed Cell Death</td>
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<td>JoAnn Roberts, Jungnam Lee, Kalina R. Atanasova, Nityananda Chowdhury, Ozlem Yilmaz, Graduate Studies, Oral Health Sciences, MUSC.</td>
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<td>Structural and functional analysis of an essential cell cycle regulator reveals a novel mechanism of action</td>
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<td>Katelyn Williams, Shuo Qie, James Atkison, J. Alan Diehl, Shaun Olsen, Graduate Studies (MSTP), Biochemistry &amp; Molecular Biology, MUSC.</td>
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<td>Pharmacological inhibition of HUNK by staurosporine synergizes with lapatinib in a HER2 inhibitor resistant HER2+ breast cancer model.</td>
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<td>Joelle Zambrano, Christina Williams, Carly Williams, Tinslee Dilday, Scott Eblen, Elizabeth Hill, Kent Armeson, Elizabeth Yeh, Graduate Studies, Cell and Molecular Pharmacology and Experimental Therapeutics, MUSC.</td>
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<td>Identifying Immunological Basis for Bladder Cancer Sex Bias</td>
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<td>Hyunwoo Kwon, Satoshi Kaneko, Ching-Ying Lin, Anqi Li, Mohammad Salem, Xue Li, Zihai Li, Graduate Studies (MSTP), Microbiology and Immunology, MUSC.</td>
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258 Targeting RAS Dimerization Domain by RAS specific monobody inhibits tumorigenesis in vivo
Imran Khan, Russell Spenser Smith, John O'Bryan, Medicine, Department of Cell and Molecular Pharmacology & Experimental Therapeutics, MUSC.

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259 Targeting GARP/TGFbeta complex for cancer immunotherapy
Alessandra Metelli, Zihai Li, Graduate Studies, Microbiology and Immunology, MUSC.

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260 PI3K delta inhibition propagates CD8+ T cells with potent antitumor immunity
Connor Dwyer, Hannah M. Knochelmann, Aubrey S. Smith, Megan M. Wyatt, Guillermo O. Rangel Rivera, Dimitrios C. Arhontoulis, Chrystal Paulos, Medicine (MD, PhD), Microbiology and Immunology, MUSC.

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261 Stromal Platelet Derived Growth Factor Receptor-Beta2 (PDGFRβ) Signaling: A Novel Therapeutic Target for Breast Cancer Brain Metastasis (BCBM)

1:30 - 1:45 BREAK

1:45 - 2:00
262 The interaction of AVP and ANP in Inner Medullary Collecting Duct
Iuliia Polina, Elizaveta Kurashkina, Regina Sultanova, Mark Domondon, Daria Ilatovskaya, Medicine, Medicine/Nephrology Division, MUSC.

2:00 - 2:15
263 Nuclear histone deacetylase 5 overexpression in the nucleus accumbens reduces heroin-seeking behaviors
Ethan Anderson, Makoto Taniguchi, Ph.D., Chris Cowan, Medicine, Neuroscience, MUSC.

2:15 - 2:30
264 Haptoglobin concentration, pregnancy and preeclampsia in women with Type 1 diabetes
Clare Kelly, Jeremy Y. Yu, Alicia J. Jenkins, Alison Nankervis, Kristian F. Hanssen, Tore Henriksen, Satish K. Garg, Samar M. Hammad, Christopher E. Aston, Timothy Lyons, Medicine, Endocrinology, MUSC.

2:30 - 2:45
265 Establishment of a Cigarette Smoke-Exposure Protocol for the Study of Fracture Healing in a Bilateral Femur Fracture Model
Phillip Westbrook, Russell Reeves, Yongren Wu, Glenn Hefter, Hai Yao, William Barfield, Vincent Pellegrini, Medicine, Orthopaedics, MUSC.
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<td>Pengfei Li, Yue Zhou, Andrew J. Goodwin, James A. Cook, Perry V. Halushka, Xian K. Zhang, Carole, L Wilson, Lynn M Schnapp, Hongkuan Fan, Medicine, Department of Pathology and Lab Medicine, MUSC.</td>
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<td><strong>267 Specific Gut Bacterium Alters Commensal Microbiota Immunomodulatory Actions Regulating Skeletal Development</strong></td>
<td>Jessica Hathaway-Schrader, Nicole Pouliides, Sakamuri Reddy, Caroline Westwater, Chad Novince, Dental Medicine, Oral Health Sciences, MUSC.</td>
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<td><strong>268 Diagnostic and Treatment Challenges for immigrants and refugees with psychotic posttraumatic stress disorder (PTSD)</strong></td>
<td>Ebele Compean, Jennifer Jones, MD, Linda Taimina, MS, Charli Kirby, BA, Ayaba Logan, MLIS, MPH, Mark Hamner, Graduate Studies, Department of Psychiatry and Behavioral Sciences, MUSC.</td>
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<td><strong>269 Development of Vitamin K analogs as therapeutics for medication-resistant epilepsy.</strong></td>
<td>Ludivine Renaud, Richard A. Himes, Elizabeth S. Brooks, Tucker J. Williamson, C. James Chou, Sherine Chan, Pharmacy, Department of Drug Discovery and Biomedical Sciences, MUSC.</td>
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<td><strong>270 Behavioral and Synaptic Characterization of a Mouse Model of Syndromic Autism</strong></td>
<td>Adam Harrington, Kayla Blankenship, Jennifer Cho, Ahlem Assali, Catherine Bridges, Christopher Cowan, Medicine, Neuroscience, MUSC.</td>
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<td><strong>271 Age-Related Spatial Hearing Difficulty Predicted by the White-Matter Integrity of the Auditory 'Where' Pathway</strong></td>
<td>James Dias, Carolyn McClaskey, Kelly Harris, Medicine, Otolaryngology - Head and Neck Surgery, MUSC.</td>
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<td><strong>272 Generation of a new mouse to model pancreatic cancer-induced cachexia.</strong></td>
<td>Erin Talbert, Katherine J. Lader, Maria C. Cuitino, Gustavo W. Leone, Denis Guttridge, Medicine (MD, PhD), Darby Children's Research Institute/Pediatrics, MUSC.</td>
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12:45 - 1:00
273 A Global Analysis of Receptor Tyrosine Kinase Action in Malignant Peripheral Nerve Sheath Tumors Identifies Key Therapeutic Targets
Victoria Alers, Brosius Stephanie, Prechtl Amanda, Guest Steven, Longo Jody, Worley Stuart, Garrett-Mayer Elizabeth, Findlay Victoria, Armeson Kent, Hull Kent, Steven Carroll, Graduate Studies, Pathology and Laboratory Medicine, MUSC.

1:00 - 1:15
274 Endoplasmic Reticulum Stress Contributes to Mitochondrial Exhaustion of CD8 T cells
Kiley Lawrence, Katie Hurst, Matthew Essman, Zeke Walton, Lee Leddy, Jessica Thaxton, Medicine, Dual appointment: Orthopaedics/Microbiology and Immunology, MUSC.

1:15 - 1:30
275 Importance of the enzymatic activity of CD26 expressed on tumor-specific Th17 cells for adoptive cell therapy
Megan Wyatt, Stefanie Bailey, Michelle Nelson, Connor Dwyer, Hannah Knochelmann, Aubrey Smith, Chrystal Paulos, Graduate Studies, Microbiology & Immunology, MUSC.

1:30 - 1:45
277 The prevalence and progression of hearing loss in children with concussion
Michaela Close, Charmee Mehta, Ted Meyer, Medicine, Otolaryngology-Head and Neck Surgery, MUSC.