Dorothy M. Davis Heart and Lung Research Institute Office of the Director 473 West 12th Avenue, 110G Columbus, Ohio 43210-1252 Phone: 614.247.7766 Fax: 614.247.7799 Twitter: @OhioStateDHLRI

Dear Colleagues and Guests,

It is a distinct pleasure to welcome you to the 19th Annual Research Day for the Dorothy M. Davis Heart and Lung Research Institute (DHLRI), including over 130 posters, featured talks from some of our very talented trainees, and a keynote talk from Dr. Leslie Leinwand, Distinguished Professor and Chief Scientific Officer of the BioFrontiers Institute at the University of Colorado Boulder. Dr. Leinwand is not only an exceptional translational scientist but also a successful entrepreneur and incredible mentor, who has trained many leaders in the field. Thank you to everyone who made the day possible, especially Jenifer Bennett, Business Operations Senior Analyst, the DHLRI Education Committee, and the Webb Family for their generous philanthropic support. We are also excited to announce the inaugural Charles Webb Innovator of the Year Award in memory of our friend Charles (Chuck) Webb, whose legacy includes a lifetime of hard work, commitment to family, and social responsibility.

Today is all about celebrating our many research and professional achievements over the past year, which have resulted in another record year in terms of funding and impact. To keep pace with your productivity, we have worked hard to increase programming, infrastructure, and membership. A highlight of the past year was celebration of the 1-year anniversary of the Chlapaty Labs in the Pelotonia Research Center. We thank the faculty, staff, and trainees that make up the 11 DHLRI labs now residing in the new space. In parallel, we have made major efforts to grow the infrastructure for collaborative research, including expansion of core labs and purchase of new equipment. We have also made major strides to incorporate Diversity, Equity, and Inclusion into the DHLRI mission. Our new DEI Committee is focused on identifying and removing barriers to progress for all our members. Keep an eye out for opportunities to listen and learn in our new DHLRI Pathways to Progress Distinguished Seminar Series, along with our other educational and mentoring programming.

We'd like to close with a final salute to all of our amazing faculty, staff, and trainees, who are responsible for creating the rich research and training environment in the DHLRI. We celebrate the many new grants, papers, and awards, but we also acknowledge the smaller wins – mastering a new protocol, starting a new collaboration, attending your first conference, clearing the inbox. We see the hard work that you do every day that sets the stage for the big wins!

Have a great day,

Thomas J. Hund, PhD Professor, Department of Internal Medicine and Biomedical Engineering DHLRI, Director William D. and Jacqueline L. Wells Chair Seth H. Weinberg, PhD, FHRS, FAHA Professor, Department of Biomedical Engineering Associate Dean for Research, College of Engineering Chair, DHLRI Education Committee



| 8:30am | Poster Set-Up (BRT Lobby) |
|--|--|
| 9:00am – 11:00am | Poster Session (BRT Lobby) |
| 11:00am | Opening Remarks (BRT 115), Thomas J. Hund, PhD – Director, DHLRI |
| 11:00am 11:00am-11:10a 11:10am-11:20a | Effect of Increased Afterload on Right Ventricular Waveform Shape and Novel Phenotyping of Patients with Pulmonary Hypertension |
| | Pro-Fibrotic Fibroblast MOXD1 Expression Is Associated with Impaired Copper Transport in Idiopathic Pulmonary Fibrosis |
| 11:20am-11:30a | am Elisa Felix Soriano, PhD (Post Doctoral Researcher) Paternal Exercise Negates the Detrimental Effect of a Paternal HFD On Offspring Cardiac Function and Improves Offspring Cardiac Metabolism |
| 11:30am – 11:4 | 0am Kyle Gordon (Graduate Student) Impact of Endothelial CD39 on Immune Cell Populations in Hypertension |
| 11:40am–11:50 | am Saugat Khanal, PhD (Post Doctoral Researcher) An Anti-Arrhythmic Action and Novel Molecular Mechanisms of Alda- 1 In Holiday Heart Syndrome |
| 11:50am-12:00j | pm Evangeline Schott (Graduate Student) Lipocalin 2 Production Mitigates Ozone Induced Lung Injury and Inflammation |
| 12:00pm – 12:45pm Lunch (BRT Lobby) | |
| 12:50pm Intro to Keynote Speaker (DHLRI 170) | |
| 1:00pm Keynote Talk (DHLRI 170) Leslie Leinwand, PhD- BioFrontiers Institute, University of Colorado Boulder "The Role of Basic Science in Treating A Deadly Heart Disease" | |
| 1:45pm Keynote Q&A (DHLRI 170) | |
| 2:00pm Awards (DHLRI 170) | |

Joshua Joseph, MD

Keynote Speaker



Joshua Joseph, MD

Associate Professor of Internal Medicine with Tenure Endowed Professor for Research in Internal Medicine Division of Endocrinology, Diabetes, and Metabolism Investigator, Diabetes & Metabolism Research Center Affiliated Faculty, Translation Data Analytics Institute The Ohio State University Wexner Medical Center

Joshua Joseph, MD, MPH, FAHA is an associate professor of Internal Medicine and the Endowed Professor for Research in Internal Medicine in the Division of Endocrinology, Diabetes and Metabolism at The Ohio State University Wexner Medical Center. He is founder and medical director for the Ohio State Wexner Medical Center's Healthy Community Center, which focuses on nutrition and wellness on the near east side of Columbus. Dr. Joseph's research is funded by the National Institutes of Health, American Heart Association, Agency of Healthcare Research and Quality, Robert Wood Johnson

Foundation and the U.S. Department of Defense. This research focuses on advancing prevention and treatment of obesity, diabetes and cardiovascular disease through a health equity lens with four pillars:

- Examining the role of stress hormones in cardiometabolic disease
- Health system to community partnerships
- Community-based participatory research
- Quality improvement science

Dr. Joseph is recognized nationally for his work on academic, community, government and industry (ACGI) partnerships to advance health through community-based interventions. His ACCELERATE research group's work has been featured nationally and internationally, including in USA Today and Time, and on Sirius XM Doctor Radio, CBS News, NBC News, ABC News and PBS Newshour.

Clinically, Dr. Joseph treats patients with diabetes and cardiovascular disease at his communitybased clinic. Nationally, he is chair of the Endocrine Society Clinical Affairs Core Committee, chair-elect of the American Heart Association Council on Lifestyle and Cardiometabolic Health Diabetes committee and president-elect of the Central Ohio American Heart Association Board. He has been recognized for his science, community engagement and clinical impact with several awards including election to Alpha Omega Alpha, National Minority Quality Forum 40 under 40, and the American Society for Clinical Investigation, along with being awarded the 2019 Columbus Education Association Dr. Martin Luther King Jr. Humanitarian Award, and the "Philanthropist of the Year" Pillar Award by the Medical Mutual Pillar Award for Community Service in 2021.

DHLRI Core Labs

Comprehensive Lab Animal Monitoring System (CLAMS)

Directors: Kristin Stanford, PhD and Lisa Baer, MS

Columbus Instrument's Comprehensive Lab Animal Monitoring System (CLAMS) incorporates sub-systems for open circuit calorimetry and activity in an environmental chamber: Oxymax/CLAMS is the one-test solution for simultaneous multi parameter assessment of one to nine mice. Operation of Oxymax/CLAMS and data collection is performed by an integrated program. The resulting secure data sets can be exported to Comma Separated Value (CSV) files and provide the link between Oxymax/CLAMS and your existing data analysis tools.

Please contact Lisa Baer (Lisa.Baer@osumc.edu) with questions.

Comprehensive Lab Animal Monitoring System (CLAMS) 346 Biomedical Research Tower (BRT) 460 West 12th Avenue Columbus, Ohio 43210-1252 Phone: 614-688-8711 or 614-247-8287 Email: Lisa.Baer@osumc.edu or Kristin.Stanford@osumc.edu

Interventional Cardiology Cath Core Lab

Manager: Matthew Joseph, BS

The Cath Core specializes in providing fluoroscopic (real time x-ray) based services to institutional investigators as well as external private companies. We can support a wide array of preclinical research projects including:

- Basic Research
- Medical Device Development
- R&D / Proof of Concept
- Cellular Therapy / Biologics
- Training Labs

The Cath Core is a fully equipped interventional Cath/EP suite with an OEC 9800 Plus fluoroscopic C-arm. This imaging system has cine, digital spot, and digital subtraction angiography (DSA) capabilities as well as a dedicated cardiac review station for post imaging processing. In addition to the equipment, the Cath Core also provides the experienced interventional and surgical support personnel needed to complete your large animal preclinical experiments.

Our main focus is on surgical and interventional cardiovascular research models in various large animal species. However, the use of fluoroscopy is not limited to cardiovascular research. Other disciplines including pulmonary, neurology, orthopedics, oncology, and urology have benefited by utilizing this imaging technology. If your translational studies encompass a different field, we can either reproduce published in vivo models or develop a unique model to fit your research objectives.

Interventional Cardiology Cath Core Lab

1016 Wiseman Hall 400 West 12th Avenue Columbus, Ohio 43210 Phone: 724-730-9337 Email: <u>Matthew.Joseph@osumc.edu</u>

Small Animal Imaging Core Lab (SAIC) Director: Kimerly A. Powell, PhD Manager: Anna Bratasz, PhD

The Small Animal Imaging Core (SAIC) at the Davis Heart and Lung Research Institute is a comprehensive small animal imaging facility available to investigators at The Ohio State University and other academic and commercial institutions. This facility includes high resolution imaging equipment (MRI, ultrasound, microCT and optical), X-ray irradiators (SARRP, RS-2000, GammaCell), body composition analyzer, and personnel trained in the operation of each imaging modality and small animal handling procedures, as well as analytical software support for quantitative image analysis. In addition to providing interim animal housing for serial imaging studies, the SAIC also offers on-site suites for surgical procedures, and animal care provided by the University Laboratory Animal Resources. Image reconstruction, multi-modality fusion, quantitative image analysis.

Services and Equipment:

- Consultation
- Imaging:
 - MicroCT Imaging (SkyScan 1276)
 - Optical Imaging (IVIS Lumina II)
 - Magnetic Resonance Imaging (Bruker 9.4T)
 - Ultrasound (Vevo 2100)
- Analysis and Interpretation
- Training and Education
- Live Animal Body Composition Measurements (echoMRI)
- Irradiation:
 - Cesium irradiator (GammaCell)
 - X-ray irradiator (RS-2000)
 - Small Animal Radiation Research Platform (SARRP)

Small Animal Imagining Core

Email: DHLRI.SAIC@osumc.edu

Phone: 614-688-8068 or 614-293-8954

Presenter Abstracts by Alphabet

1. Abu-saleh(Research Staff) 2. Acharya, PhD(Post-Doctoral Researcher) 3. Agarwal(Undergraduate Student) 4. Alabre-Bonsu, MD(Clinical Fellow) 5. Alonzo, PhD(Post-Doctoral Researcher) 6. Alvarez(Research Staff) 7. Anang, PhD(Post-Doctoral Researcher) 8. Angeles Lopez, PhD(Post-Doctoral Researcher) 9. Antonescu(Research Staff) 10. Arshad(Graduate Student) 11. Ashraf(Undergraduate Student) 12. Baoyinna, MD(Research Staff) 13. Batabyal(Graduate Student) 14. Batchu(Undergraduate Student) 15. Bentley, MD(Faculty (Non-Competing)) 16. Bering(Undergraduate Student) 17. Bhachu(Undergraduate Student) 18. Bobik(Research Staff) 19. Brady, DO(Clinical Fellow) 20. Buck, MD(Clinical Fellow) 21. Burghaze(Graduate Student) 22. Chen(Research Staff) 23. Chen, MD, PhD(Post-Doctoral Researcher) 24. Clarkson(Undergraduate Student) 25. Cochran, PhD(Post-Doctoral Researcher) 26. Contreras(Graduate Student) 27. De, PhD(Research Staff) 28. Debell(Undergraduate Student) 29. Densel(Undergraduate Student) 30. Dholaniya, PhD(Post-Doctoral Researcher) 31. Diep(Undergraduate Student) 32. Esteves, PhD(Post-Doctoral Researcher) 33. Faber(Graduate Student) 34. Felix Soriano, PhD(Post-Doctoral Researcher) 35. Fritz(Graduate Student) 36. Frommeyer, MD(Clinical Fellow) 37. Gilbert(Graduate Student) 38. Gomatam(Graduate Student) 39. Gordon(Graduate Student) 40. Gunsch(Graduate Student) 41. Hackenberg(Research Staff) 42. Horbal, DO(Clinical Fellow) 43. Hu, MD, PhD(Post-Doctoral Researcher) 44. Ikkurthi(Undergraduate Student) 45. James(Graduate Student) 46. Johnson, PhD(Post-Doctoral Researcher) 47. Joshi, PhD(Post-Doctoral Researcher) 48. Khanal, PhD(Post-Doctoral Researcher) 49. King, PhD(Post-Doctoral Researcher)

50. Knowles(Undergraduate Student) 51. Koch(Undergraduate Student) 52. Kogan(Undergraduate Student) 53. Konakalla(Undergraduate Student) 54. Krishna, PhD(Post-Doctoral Researcher) 55. Kumar, PhD(Post-Doctoral Researcher) 56. Kumar, PhD(Research Staff) 57. Lee, MD(Clinical Fellow) 58. Lefers(Graduate Student) 59. Leuenberger, MD(Faculty (Non-Competing)) 60. Li, PhD(Faculty (Non-Competing)) 61. Liu(Graduate Student) 62. Lococo(Undergraduate Student) 63. Lopez Serrano, PhD(Post-Doctoral Researcher) 64. Lovins(Graduate Student) 65. MacDowell, MD(Clinical Fellow) 66. Madabattula(Research Staff) 67. Mahalingam(Graduate Student) 68. Mattoo, PhD(Post-Doctoral Researcher) 69. McCallinhart, PhD(Research Staff) 70. McNicol(Undergraduate Student) 71. Miller(Graduate Student) 72. Mishra(Graduate Student) 73. Mocarski, MD(Clinical Fellow) 74. Mueller(Undergraduate Student) 75. Nadkarni, MD(Clinical Fellow) 76. Nassal, PhD(Faculty (Non-Competing)) 77. Nirengi, PhD(Post-Doctoral Researcher) 78. Nypaver(Undergraduate Student) 79. Olverson(Graduate Student) 80. O'Malley, MD(Clinical Fellow) 81. Oueis(Undergraduate Student) 82. Ozabrahamvan(Graduate Student) 83. Pardeshi(Graduate Student) 84. Patel(Undergraduate Student) 85. Patel(Undergraduate Student) 86. Pham(Undergraduate Student) 87. Piepho(Graduate Student) 88. Piper(Research Staff) 89. Ricchiuti(Research Staff) 90. Riley(Undergraduate Student) 91. Rivera(Research Staff) 92. Rodriguez Lopez(Research Staff) 93. Roman(Undergraduate Student) 94. Rosas, PhD(Post-Doctoral Researcher) 95. Sanders(Graduate Student) 96. Sanghvi, PhD(Post-Doctoral Researcher) 97. Saroj(Graduate Student) 98. Sattler(Graduate Student) 99. Schott(Graduate Student) 100. Segreto(Undergraduate Student) 101. Selimi, MD, PhD(Post-Doctoral Researcher)

102. Shaheen(Graduate Student) 103. Shaheen, PhD(Post-Doctoral Researcher) 104. Shaver, MD(Clinical Fellow) 105. Soni, PhD(Research Staff) 106. Stoner(Graduate Student) 107. Tamimi(Undergraduate Student) 108. Tang(Graduate Student) 109. Tao(Graduate Student) 110. Tarasov, PhD(Research Staff) 111. Thuma(Graduate Student) 112. Tian(Undergraduate Student) 113. Vanegas, PhD(Post-Doctoral Researcher) 114. Veress, PhD(Research Staff) 115. Watson(Graduate Student) 116. Webb(Undergraduate Student) 117. Willows(Graduate Student) 118. Wilson(Undergraduate Student) 119. Winkle(Graduate Student) 120. Wodarcyk, MD(Clinical Fellow) 121. Woodbury(Research Staff) 122. Xia(Graduate Student) 123. Xu, PhD(Post-Doctoral Researcher) 124. Yaeger(Graduate Student) 125. Yang(Graduate Student) 126. Yeh(Graduate Student) 127. Yu, PhD(Post-Doctoral Researcher) 128. Yuhara, PhD(Post-Doctoral Researcher) 129. Zhang(Graduate Student) 130. Zhang, PhD(Faculty (Non-Competing)) 131. Zuiker(Graduate Student) 132. Kasprovic (Research Staff) 133. Kolonay (Graduate Student)

Undergraduate Student

Poster # 3 : Shreya Agarwal

Effect of Increased Afterload on Right Ventricular Waveform Shape and Novel Phenotyping of Patients with Pulmonary Hypertension

Department of Internal Medicine, Division of Cardiovascular Medicine

PI: Rebecca Vanderpool, PhD

Poster # 11 : Syed Ashraf

hiPSC-CMs Cultured with hiPSC-CPCs on a Nanofiber Cardiac Patch Show Improved Function and Cardioprotection

Department of Emergency Medicine

PI: Mahmood Khan, M.Pharm, PhD

Poster # 14 : Anant Batchu

Optimization of Electrospun Crosslinked Nanofiber Scaffolds for Cardiac Drug Delivery

Department of Physiology & Cell Biology

PI: Mahmood Khan, M.Pharm, PhD

Poster # 16 : Jakob Bering

Elucidating the Role of NOTCH1 In Hypoplastic Left Heart Syndrome using Patient-Specific Induced Pluripotent Stem Cells

Center for Cardiovascular Research

PI: Mingtao Zhao, DVM, PhD

Poster # 17 : Harmeet Bhachu

X-Linked Cardiac Hypertrophy Within the CLIC2 Subproteome

Department of Physiology & Cell Biology

PI: Harpreet Singh, PhD

Poster # 24 : Campbell Clarkson

Cardiac JNK2 Mediates a Heart-Brain Crosstalk in Driving Holiday Heart Syndrome and Behavioral Abnormalities

Department of Physiology & Cell Biology

PI: Xun Ai, MD

Poster # 28 : Peyton Debell

Decorin Does Not Localize to Fibrotic Areas in Skeletal Muscles from Muscular Dystrophy Mouse Models

Department of Physiology & Cell Biology

PI: Jill Rafael-Fortney, PhD

Poster # 29 : Nash Densel

MCAO Coil-Induced Canine Survival Stroke Model

Department of Neurosurgery

PI: Paco Herson, PhD

Poster # 31 : Sally Diep

Hypoxia Increases MCT4-Dependent Extracellular Lactate in IPF Fibroblasts

Department of Internal Medicine, Division of Pulmonary, Critical Care & Sleep Medicine

PI: Richard Nho, PhD

Poster # 44 : Rohita Ikkurthi

Role of Cardiomyocyte-Derived Extracellular Vesicle (CM-EVs) In Pathological Cardiac Remodeling

Department of Molecular Medicine & Therapeutics

PI: Michael Tranter, PhD

Poster # 50 : Alex Knowles

In Vitro Modulation of Cardiac Fibroblast Activation by Matrix Composition

Department of Emergency Medicine

PI: Onur Kanisicak, PhD

Poster # 51 : Daniel Koch

Ubiquitin E3 Ligase MARCH10 Targets Influenza Hemagglutinin for Ubiquitination

Department of Internal Medicine, Division of Pulmonary, Critical Care & Sleep Medicine

PI: Joanna Tsai, MD & Rama Mallampalli, MD

Poster # 52 : Jacob Kogan

Fibroblast-Specific Deletion of Activating Transcription Factor 3 (ATF3) Attenuates Bleomycin-Induced Pulmonary Fibrosis in Mice

Department of Internal Medicine, Division of Pulmonary, Critical Care & Sleep Medicine

PI: Mauricio Rojas, MD

Poster # 53 : Sravani Konakalla

Identification of Aging and Senescent Cells in Different Anatomical Regions of Aged Lungs

Department of Internal Medicine, Division of Pulmonary, Critical Care & Sleep Medicine

PI: Mauricio Rojas, MD

Poster # 62 : Simon Lococo

Mechanism for Cardiomyopathy and Cardiac Arrhythmia Associated with a Novel Human Titin Variant

Department of Biomedical Engineering

PI: Thomas J. Hund, PhD

Poster # 70 : Emily McNicol

Identification of Key Functional Domains in Dysferlin Membrane Repair Protein Using Targeted Mutations and Deletion Analysis

Department of Physiology & Cell Biology

PI: Noah Weisleder, PhD

Poster # 74 : Finley Mueller

Right Atrial Size and Function in Pulmonary Hypertension

Department of Internal Medicine, Division of Cardiovascular Medicine

PI: Rebecca Vanderpool, PhD

Poster # 78 : Elizabeth Nypaver

Defining the Role of Cardiac Fibroblasts in the Adipose-Cardiac Signaling Axis

Department of Molecular Medicine & Therapeutics

PI: Michael Tranter, PhD

Poster # 81 : Mariam Oueis

Advanced 4-Chamber Echocardiography Techniques Enable Clinically Matched, Precise Assessments of Left and Right Ventricles, Atria, and Valve's Functions in Mice

Department of Physiology & Cell Biology

PI: Jidong Fu, MD, PhD

Poster # 84 : Aaryan Patel

Amantadine and Amitriptyline, Two FDA-Approved Potassium Channel Blockers, Inhibit Potassium Ion Viroporin Activity of The Strain-Independent SARS-COV-2 Envelope Protein

Department of Physiology & Cell Biology

PI: Harpreet Singh, PhD

Poster # 85 : Mudra Patel

Dapagliflozin-Mediated Attenuation of Myocardial Infarction is Facilitated by CLIC4

Department of Physiology & Cell Biology

PI: Harpreet Singh, PhD

Poster # 86 : Cindy Pham

High-Phosphate Diet Induces Exercise Intolerance and Impairs Fatty Acid Metabolism in Mice

Department of Physiology & Cell Biology

PI: Kedryn Baskin, PhD

Poster # 90 : Morgan Riley

Cellular Senescence Signatures Across Different Triggers in Human Precision- Cut Lung Slices for Studying Age-Related Lung Diseases

Department of Internal Medicine, Division of Pulmonary, Critical Care & Sleep Medicine

PI: Mauricio Rojas, MD

Poster # 93 : Ana Roman

Loss of Function Polymorphism in the Ecto-5'-Nucleotidase (NT5E) Gene Increases Atherosclerotic Burden

Department of Internal Medicine, Division of Cardiovascular Medicine

PI: Richard Gumina, MD, PhD

Poster # 100 : Michael Segreto

The tRNA Methyltransferase, TRMT1, Regulates tRNA Fragmentation to Prevent Cell Death During Cellular Stress

Department of Internal Medicine, Division of Pulmonary, Critical Care & Sleep Medicine

PI: Joseph S. Bednash, MD

Poster # 107 : Nawal Tamimi

Advanced 4-Chamber Echocardiography Techniques Sensitively Reveals the Therapeutic Effect of IncRNA in Murine Myocardial Infarction Hearts

Department of Physiology & Cell Biology

PI: Jidong Fu, MD, PhD

Poster # 112 : Shane Tian

CRISPR Prime Editing for Treating Long QT Syndrome Associated Gene Mutation

Department of Surgery, Division of Cardiac Surgery

PI: Hua Zhu, PhD

Poster # 116 : Averie Webb

Cabozantinib Leads to Cardiotoxicity and Oxidative Stress in H9c2 Ventricular Myoblasts

Department of Internal Medicine, Division of Cardiovascular Medicine

PI: Sakima Smith, MD

Poster # 118 : Matthew Wilson

Investigating the Effects of Intrauterine Exposure to E-cigarettes on Cardiac Function

Department of Surgery, Division of Cardiac Surgery

PI: Loren Wold, PhD

Graduate Student

Poster # 10 : Syed Murtaza Arshad

EMORe: Motion-Robust XD-CMR Reconstruction Using Expectation- Maximization (EM) Algorithm

Department of Electrical & Computer Engineering: Electrical and Computer Engineering Graduate Program

PI: Rizwan Ahmad, PhD

Poster # 13 : Anandi Batabyal

Maternal Fine Particulate Matter (PM2.5) Exposure Programs Cardiometabolic Dysfunction in Offspring via Adaptations to the Gut Microbiome

Department of Surgery, Division of General & Gastrointestinal Surgery: Molecular, Cellular and Developmental Biology Program

PI: Kristin I. Stanford, PhD & Tamar Gur, MD, PhD

Poster # 21 : Madeline Burghaze

Fibroblasts From the Right Ventricle Show a Unique Phenotype in Processes Involved in Cardiac Fibrosis

Department of Surgery, Division of Cardiac Surgery: Molecular, Cellular and Developmental Biology Program

PI: Matthew Gorr, PhD

Poster # 26 : Javier Contreras

Modelling Maternal Hyperglycemia-induced Congenital Heart Defects using Human Induced Pluripotent Stem Cells

Center for Cardiovascular Research: Biomedical Sciences Graduate Program

PI: Mingtao Zhao, DVM, PhD

Poster # 33 : Sarah Faber

Inhibition of Microglia-Specific miR17 Leads to Improvement in Alzheimer's Disease Pathology in Mouse Model

Department of Microbial Infection & Immunity: Neuroscience Graduate Program

PI: Amal Amer, MD, PhD

Poster # 35 : Jon Fritz

Biophysical Determinants of Lung Surfactant Dysfunction in Mouse Models of Bacterial Infection and Injurious Ventilation

Department of Internal Medicine, Division of Pulmonary, Critical Care & Sleep Medicine: Interdisciplinary Biophysics Graduate Program

PI: Joshua Englert, MD & Samir Ghadiali, PhD

Poster # 37 : Benjamin Gilbert

Investigating The Role of MECOM During Mammalian Outflow Tract Development

Center for Cardiovascular Research: Molecular Genetics

PI: Vidu Garg, MD

Poster # 38 : Chetan Gomatam

Direct Effects of Mineralocorticoid Receptor Signaling on Dystrophic Skeletal Muscle Fibroblasts

Department of Physiology & Cell Biology: Molecular, Cellular and Developmental Biology Program

PI: Jill Rafael-Fortney, PhD

Poster # 39 : Kyle Gordon

Impact of Endothelial CD39 on Immune Cell Populations in Hypertension

Department of Internal Medicine, Division of Cardiovascular Medicine: Biomedical Sciences Graduate Program

PI: Richard Gumina, MD, PhD

Poster # 40 : Gilian Gunsch

Loss of Leptin Receptor Signaling in Schwann Cells and Obesity-Associated Neuropathy

Department of Neurosurgery: Biomedical Sciences Graduate Program

PI: Kristy Townsend, PhD

Poster # 45 : Natasha Maria James

Natriuretic Peptide Signaling Loop as A Potential Modulator in BAT's Response to Early Pathological Stress on The Heart

Department of Surgery, Division of General & Gastrointestinal Surgery: Molecular, Cellular and Developmental Biology Program

PI: Kristin I. Stanford, PhD

Poster # 133 : Dominic Kolonay

MED12 Is a Transcriptional Nodal Point Regulating Cardiac Transcription

Department of Physiology & Cell Biology: Molecular, Cellular and Developmental Biology Program

PI: Kedryn Baskin, PhD

Poster # 58 : Lucas Lefers

Cardiomyokines Regulate Inter-organ Communication and Improve Exercise Capacity

Department of Physiology & Cell Biology: Ohio State Biochemistry Program

PI: Kedryn Baskin, PhD

Poster # 61 : Yixuan Liu

Enhanced Real-Time iCMR Device Visualization Using GRAPPA and DnCNN Denoising at Low Field

Department of Biomedical Engineering:

Biomedical Engineering Graduate Program

PI: Orlando P. Simonetti, PhD

Poster # 64 : Hannah Lovins

Eicosapentaenoic Acid Improves Ozone-Induced Airspace Inflammation through an Oxylipin-Mediated Mechanism

Department of Internal Medicine, Division of Pulmonary, Critical Care & Sleep Medicine: Molecular, Cellular and Developmental Biology Program

PI: Kymberly Gowdy, PhD

Poster # 67 : Neeraja Mahalingam

Automatic Segmentation of Abdominal Adipose Tissue using 3D Multi-Echo Dixon Fat-Water Magnetic Resonance Imaging

Davis Heart & Lung Research Institute: Biomedical Engineering Graduate Program

PI: Orlando P. Simonetti, PhD

Poster # 71 : Zachary Miller

Analysis of the Immune System Dynamics in The Lymph of IPF And COPD Lung Transplants and The Role of The Lung Microenvironment on These Dynamics

Department of Internal Medicine, Division of Pulmonary, Critical Care & Sleep Medicine: Immunology and Immunotherapeutic Graduate Program

PI: Mauricio Rojas, MD

Poster # 72 : Gargi Mishra

Uncovering Sensory Nerve Functions in White Adipose Tissue

Department of Neurosurgery: Molecular, Cellular and Developmental Biology Program

PI: Kristy Townsend, PhD

Poster # 79 : Zianne Olverson

In Utero Exposure to Electronic Cigarette Aerosol Causes a Reduction in Uterine Artery Peak Velocity and Feto-Placental Crosstalk

Department of Surgery, Division of Cardiac Surgery: Molecular, Cellular and Developmental Biology Program

PI: Matthew Gorr, PhD

Poster # 82 : Serena Ozabrahamyan

12,13-diHOME Improves Cognitive Function and Decrease Aβ Plaque Burden in Alzheimer`s Disease

Department of Surgery, Division of General & Gastrointestinal Surgery: Biomedical Sciences Graduate Program

PI: Kristin I. Stanford, PhD

Poster # 83 : Parth Pardeshi

In vitro Effect of Brown Adipose Tissue-derived Extracellular Vesicles on the Mitochondrial Respiration of the Subcutaneous White Adipose Tissue

Department of Surgery, Division of General & Gastrointestinal Surgery: Interdisciplinary Biophysics Graduate Program

PI: Kristin I. Stanford, PhD

Poster # 87 : Arden Piepho

Cardiac Inflammation in a Severe Model of Duchenne Muscular Dystrophy Is Characterized by T-Cells that Exacerbate Cardiomyopathy Pathology

Department of Physiology & Cell Biology: Biomedical Sciences Graduate Program

GRADUATE STUDENT

PI: Jill Rafael-Fortney, PhD

Poster # 95 : Hannah Sanders

High-Phosphate Diet Induces Skeletal but Not Cardiac Muscle Mitochondrial Dysfunction and Metabolism in Mice

Department of Physiology & Cell Biology: Ohio State Biochemistry Program

PI: Kedryn Baskin, PhD

Poster # 97 : Neha Saroj

TOP2B Knockdown via siRNA Protects hiPSC-Cardiomyocytes from Doxorubicin-Induced Toxicity

Department of Emergency Medicine: PhD Visting Scholar

PI: Mahmood Khan, M.Pharm, PhD

Poster # 98 : Kristina Sattler

Med12 Inactivation in Myogenic Progenitors Impairs Skeletal Muscle Differentiation

Department of Physiology & Cell Biology: Molecular, Cellular and Developmental Biology Program

PI: Christoph Lepper, PhD

Poster # 99 : Evangeline Schott

Lipocalin 2 Production Mitigates Ozone Induced Lung Injury and Inflammation

Department of Internal Medicine, Division of Pulmonary, Critical Care &

Sleep Medicine: Immunology and Immunotherapeutic Graduate Program

PI: Kymberly Gowdy, PhD

Poster # 102 : Rebecca Shaheen

The Role of USP13 in Lung Metastasis

Department of Biomedical Engineering: Biomedical Engineering Graduate Program

PI: Thomas J. Hund, PhD

Poster # 106 : Justen Stoner

Exercise CMR Comparison Between 3T and 0.55T: Image Quality and Exercise Performance

Department of Human Sciences: Kinesiology

PI: Orlando P. Simonetti, PhD

Poster # 108 : Feng Tang

Specific Defect of MicroRNA1's Biophysical Action and Glucose Metabolism Regulation

Department of Physiology & Cell Biology: Biomedical Sciences Graduate Program

PI: Jidong Fu, MD, PhD

Poster # 109 : Tianyi Tao

Adult Brain Stem Cells and the Relationship to Hypothalamic Neural Plasticity and Metabolic Health

Department of Neurosurgery: Molecular, Cellular and Developmental Biology Program

PI: Kristy Townsend, PhD

Poster # 111 : Jenna Thuma

Troponin Enhanceropathies: A Novel Role for The Troponin Genes

Department of Physiology & Cell Biology: Interdisciplinary Biophysics Graduate Program

PI: Jonathan Davis, PhD

Poster # 115 : Samuel Watson

Inflammation in ST-Elevation Myocardial Infarction: The First 48 Hours

Department of Internal Medicine, Division of Cardiovascular Medicine: Biomedical Sciences Graduate Program

PI: Richard Gumina, MD, PhD

Poster # 117 : Jake Willows

Synaptic Terminals and Axon Outgrowth in White Adipose Tissue: Potential Targets for Treating Peripheral Neuropathy

Department of Neurosurgery: Neuroscience Graduate Program

PI: Kristy Townsend, PhD

Poster # 119 : Alexander Winkle

TREK1 Contributes to Electromechanical Remodeling in the Context of Pressure Overload

Department of Biomedical Engineering: Biomedical Engineering Graduate Program

PI: Thomas J. Hund, PhD

Poster # 122 : Boyu Xia

FBXL19 in Endothelial Cells Protects the Heart from Influenza A Infection by Enhancing Antiviral Immunity and Reducing Cellular Senescence Programs

Department of Physiology & Cell Biology: Biomedical Sciences Graduate Program

PI: Yutong Zhao, MD, PhD

Poster # 124 : Michael Yaeger

Loss of G-Protein-Coupled Receptor ALX/FPR2 Inhibits Innate Inflammation Following Acute Ozone Exposure

Department of Internal Medicine, Division of Pulmonary, Critical Care & Sleep Medicine: Biomedical Sciences Graduate Program

PI: Kymberly Gowdy, PhD

Poster # 125 : Felix Yang

Maternal Exercise Induces Adaptations in The Offspring Microbiome to Affect Offspring Metabolic Health

Department of Surgery, Division of General & Gastrointestinal Surgery: Biomedical Sciences Graduate Program

PI: Kristin I. Stanford, PhD

Poster # 126 : Chung-Ju Yeh

Regulation Of Satellite Cells by FGFR1 And FGFR4

Department of Physiology & Cell Biology: Molecular, Cellular and Developmental Biology Program

PI: Christoph Lepper, PhD

Poster # 129 : Luxi Zhang

Hydrogel Delivery of MG53 Protects the Cornea Against Nitrogen Mustard- Induced Injury

Department of Surgery, Division of Cardiac Surgery: Vision Science

PI: Heather Chandler, PhD & Hua Zhu, PhD

Poster # 131 : Eryn Zuiker

MEK1/2 Inhibitor ATR-002 Has Dual Anti-Inflammatory and Anti-Bacterial Effects During S. aureus Infection

Department of Internal Medicine, Division of Pulmonary, Critical Care & Sleep Medicine: Biomedical Sciences Graduate Program

PI: Matthew Long, PhD

Research Staff

Poster # 1 : Dania Abu-saleh

MDA5-Dependent Modulation of Perivascular Inflammation in A Mouse Model of Pulmonary Hypertension

Department of Internal Medicine, Division of Pulmonary, Critical Care & Sleep Medicine

PI: Laszlo Farkas, MD

Poster # 6 : Josh Alvarez

Pro-Fibrotic Fibroblast MOXD1 Expression Is Associated with Impaired Copper Transport in Idiopathic Pulmonary Fibrosis

Department of Internal Medicine, Division of Pulmonary, Critical Care & Sleep Medicine

PI: Mauricio Rojas, MD

Poster # 9 : Laura Antonescu

Influenza A Virus Co-Opts Bcl-2 Interacting Killer (BIK) To Drive Viral Replication and Disease Severity

Department of Internal Medicine, Division of Pulmonary, Critical Care & Sleep Medicine

PI: Yohannes A. Mebratu, DVM, PhD

Poster # 12 : * Baoyinna, MD

USP30 Promotes Lung Endothelial Barrier Dysfunction in Acute Lung Injury

Department of Physiology & Cell Biology

PI: Yutong Zhao, MD, PhD

Poster # 18 : **JT Bobik**

Identification of the Novel Role of a Trafficking Protein Particle TRAPPC6A in Cardiac Arrhythmia

Department of Surgery, Division of Cardiac Surgery

PI: Mona El Refaey, PhD

Poster # 22 : Chong Chen

Automatic Coil Selection to Suppress Motion Artifacts in Exercise RT Cine Imaging

Department of Biomedical Engineering

PI: Rizwan Ahmad, PhD

Poster # 27 : Mithu De, PhD

Proteinase 3 Surface Epitope Detection on Monocytes Versus Neutrophils

Department of Internal Medicine, Division of Pulmonary, Critical Care & Sleep Medicine

PI: Lynn A. Fussner, MD

Poster # 41 : Benjamin Hackenberg

Cardiac Methyltransferases-dependent N6-methyladenosine is Required for Sarcomereogenesis

Center for Cardiovascular Research

PI: Jihyun Jang, PhD

Poster # 132 : Daniel Kasprovic

HuR Inhibition as a Therapeutic Modality for Cardiac

Pathology via Modulation of Macrophage Polarization

Department of Molecular Medicine and Therapeutics

PI: Michael Tranter, PhD

Poster # 56 : Naresh Kumar, PhD

Pseudomonas Aeruginosa Mediated Cardiac Dysfunction Is Driven by Extracellular Vesicles Released During Infection

Department of Microbial Infection & Immunity

PI: Murugesan Rajaram, PhD

Poster # 66 : Bindu Madhavi Madabattula

TRMT1 Methyltransferase Activity Preserves Inflammasome Function

Department of Internal Medicine, Division of Pulmonary, Critical Care & Sleep Medicine

PI: Joseph S. Bednash, MD

Poster # 69 : Patricia McCallinhart, PhD

Spatial Transcriptomic Profiling of the Type 2 Diabetic Coronary Microcirculation Varied by Regions of the Heart

Center for Cardiovascular Research

PI: Aaron J. Trask, PhD

Poster # 88 : Bryce Piper

Endothelial RAB7 Deficiency Impairs Endothelial Function and Promotes Pulmonary Hypertension Via Potential Induction of Pulmonary Artery Smooth Muscle Cell Growth

Department of Internal Medicine, Division of Pulmonary, Critical Care & Sleep Medicine

PI: Laszlo Farkas, MD

Poster # 89 : Nikola Ricchiuti

A Novel Anti-Thrombotic and Anti-AF Drug Mitigates Age-Associated Bleeding Risks

Department of Physiology & Cell Biology

PI: Xun Ai, MD

Poster # 91 : Riece Rivera

Spectrin-Based Regulation of Cardiac Fibroblast Cell-Cell Communication

Department of Biomedical Engineering

PI: Thomas J. Hund, PhD

Poster # 92 : Jhonny Rodriguez Lopez

Spatial Transcriptomics with Visium CytAssist Reveals Stromal Cell Senescence in the Peribronchial Region of the Aging Lung

Department of Internal Medicine, Division of Pulmonary, Critical Care & Sleep Medicine

PI: Ana Mora, MD

Poster # 105 : Sourabh Soni, PhD

Influenza A Virus Targets the Host Ubiquitin E3 Ligase ARIH2 to Promote Viral Replication in the Airway Epithelial Cells

Department of Internal Medicine, Division of Pulmonary, Critical Care & Sleep Medicine

PI: Yohannes A. Mebratu, DVM, PhD

Poster # 110 : Mikhail Tarasov, PhD

Functional Evidence of Regulation of the Nav1.5 Channel Through Oligomerization of its A-Subunits in the Cellular Membrane

Division of Pharmaceutics & Pharmacology

PI: Przemyslaw Radwański, PharmD, PhD

Poster # 114 : Roland Veress, PhD

Calmodulin Mutation D132E In Different Genes Causes Different Arrhythmia Phenotypes

Department of Physiology & Cell Biology

PI: Dmitry Terentyev, PhD

Poster # 121 : Emerson Woodbury

Involvement of Chemokine Receptor 2 (CCR2) In Long-Term Particulate Matter (PM2.5)-Induced Cardiovascular Dysfunction

Department of Surgery, Division of Cardiac Surgery

PI: Loren Wold, PhD

Post-Doctoral Researcher

Poster # 2 : Pooja Acharya, PhD

Translational Link Between Gene Expression in Human Subcutaneous Adipose Tissue and Cardiac Function

Department of Molecular Medicine & Therapeutics

PI: Michael Tranter, PhD

Poster # 5 : Matthew Alonzo, PhD

Elevated Cell-Free RNA In Maternal Circulation During Single Ventricle Heart Defect Pregnancies Dysregulate Human Cardiomyocyte Proliferation

Center for Cardiovascular Research

PI: Mingtao Zhao, DVM, PhD

Poster # 7 : Vandana Anang, PhD

Elucidating The Role of Bcl-2 Interacting Killer (BIK) In SARS-Cov-2 Infections

Department of Internal Medicine, Division of Pulmonary, Critical Care & Sleep Medicine

PI: Yohannes A. Mebratu, DVM, PhD

Poster # 8 : Quetzalli Denisse Angeles Lopez, PhD

Mitochondrial Fatty Acid Oxidation Regulates Lung Epithelial Cell Fate

Department of Internal Medicine, Division of Pulmonary, Critical Care & Sleep Medicine

PI: Ana Mora, MD

Poster # 23 : Huilong Chen, MD, PhD

USP13 Protects Against Influenza Virus-Induced Lung Injury by Promoting IFN-β Production

Department of Physiology & Cell Biology

PI: Yutong Zhao, MD, PhD

Poster # 25 : Samuel Cochran, PhD

A Time Course Assessment of Ozone-Induced Ferroptosis in the Lungs

Department of Internal Medicine, Division of Pulmonary, Critical Care & Sleep Medicine

PI: Kymberly Gowdy, PhD

Poster # 30 : Pankaj Dholaniya, PhD

Understanding the Temporal and Transcriptional Modifications Following a Myocardial Infarction in a Rodent Heart

Department of Emergency Medicine

PI: Mahmood Khan, M.Pharm, PhD

Poster # 32 : Joao Victor Esteves, PhD

Maternal Stress and Exercise Mediate Offspring Cardiovascular Function via the Gut Microbiome

Department of Surgery, Division of General & Gastrointestinal Surgery

PI: Kristin I. Stanford, PhD

Poster # 34 : Elisa Felix Soriano, PhD

Paternal Exercise Negates the Detrimental Effect of a Paternal HFD On Offspring Cardiac Function and Improves Offspring Cardiac Metabolism

Department of Surgery, Division of General & Gastrointestinal Surgery

PI: Kristin I. Stanford, PhD

Poster # 43 : Xi Hu, MD, PhD

Lack of Cardiac Endothelial Zip8 Leads to Left Ventricular Noncompaction Cardiomyopathy

Center for Cardiovascular Research

PI: Deqiang Li, MD, PhD

Poster # 46 : Benjamin Johnson, PhD

Secreted Mitochondrial Aspartyl-tRNA Synthetase (DARS2) Enhances Immune Responses in a Mouse Model of Sepsis

Department of Internal Medicine, Division of Pulmonary, Critical Care & Sleep Medicine

PI: Rama Mallampalli, MD

Poster # 47 : Jyotsna Joshi, PhD

Modeling of Ankyrin B p.R990Q Variant Using Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes (iPSC-CMs) Showed Abnormal Calcium Transients and Reduced IKr

Department of Internal Medicine, Division of Cardiovascular Medicine

PI: Sakima Smith, MD

Poster # 48 : Saugat Khanal, PhD

An Anti-Arrhythmic Action and Novel Molecular Mechanisms of Alda-1 In Holiday Heart Syndrome

Department of Physiology & Cell Biology

PI: Xun Ai, MD

Poster # 49 : Kendall King, PhD

Low Tas1r2 Expression Protects Muscle Metabolism in High-Fat Diet Model

Department of Biological Chemistry & Pharmacology

PI: George Kyriazis, PhD

Poster # 54 : Swathy Krishna, PhD

Distinct Cellular Communication from Aldosterone-Treated Myotubes to Fibroblasts Between Wild-Type and Dystrophic Muscles

Department of Physiology & Cell Biology

PI: Jill Rafael-Fortney, PhD

Poster # 55 : Pankaj Kumar, PhD

Role of Stabilin Receptors in Rheumatoid Arthritis

Department of Internal Medicine, Division of Immunology & Rheumatology

PI: Latha P. Ganesan, PhD

Poster # 63 : Ana Laura Lopez Serrano, PhD

Contribution Of CD4+ T Cells to Arrhythmias in Heart Failure

Department of Physiology & Cell Biology

PI: Isabelle Deschenes, PhD

Poster # 68 : Sameer Mattoo, PhD

Aging Accelerates the Cardiac Inflammation and Pathology During Streptococcus Pneumonia Infection

Department of Microbial Infection & Immunity

PI: Murugesan Rajaram, PhD

Poster # 77 : Shinsuke Nirengi, PhD

12,13-diHOME Increases Mitochondrial β -oxidation in White Adipose Tissue

Department of Surgery, Division of General & Gastrointestinal Surgery

PI: Kristin I. Stanford, PhD

Poster # 94 : Lorena Rosas, PhD

STING Inhibitor as a Therapeutic for Senescence in Idiopathic Pulmonary Fibrosis Via cGAS-STING Pathway Modulation

Department of Internal Medicine, Division of Pulmonary, Critical Care & Sleep Medicine

PI: Mauricio Rojas, MD

Poster # 96 : Shridhar Kiran Sanghvi, PhD

CLIC2-Dependent Regulation of Cardiac Ryanodine Receptor

Department of Physiology & Cell Biology

PI: Harpreet Singh, PhD

Poster # 101 : Zoja Selimi, MD, PhD

Investigating the Effect of a Nav1.5 Selectivity Filter Mutation in Channel Function and Arrhythmia Pathogenesis

Division of Pharmaceutics & Pharmacology

PI: Przemyslaw Radwański, PharmD, PhD

Poster # 103 : Nargis Shaheen, PhD

The Role of the βIV-spectrin/STAT3 Complex in Regulating Ischemic Cardiac Remodeling

Department of Physiology & Cell Biology

PI: Jing Zhao, MD, PhD

Poster # 113 : Natalia Vanegas, PhD

In Vitro Culture of Primary Human Healthy Lung Fibroblasts Induces Collagen Expression and Promotes the Expansion of Adventitial Fibroblasts

Department of Internal Medicine, Division of Pulmonary, Critical Care & Sleep Medicine

PI: Mauricio Rojas, MD

Poster # 123 : Yanping Xu, PhD

Prime Editing in vivo: Correcting the Leptin Receptor of db/db Mice

Department of Surgery, Division of Cardiac Surgery

PI: Hua Zhu, PhD

Poster # 127 : Yang Yu, PhD

Common and Divergent Cellular Etiologies Underlying Hypoplastic Left Heart Syndrome and Hypoplastic Right Heart Syndrome

Center for Cardiovascular Research

PI: Mingtao Zhao, DVM, PhD

Poster # 128 : Satoshi Yuhara, PhD

Rapamycin-Eluting Tissue-Engineered Vascular Graft: A Solution for Inflammation-Induced Subacute Narrowing

Center for Regenerative Medicine

PI: Toshiharu Shinoka, MD, PhD

Clinical Fellow

Poster # 4 : Alisha Alabre-Bonsu, MD

Utilization Of High Intensity Statins in Patients Hospitalized for Myocardial Infarction

Department of Internal Medicine, Division of Cardiovascular Medicine

PI: M. Wesley Milks, MD

Poster # 19 : Steven Brady, DO

Outcome of Patients with Systolic Heart Failure Who Underwent Sympathectomy for Ventricular Arrhythmia

Department of Internal Medicine, Division of Cardiovascular Medicine

PI: Alex Parker, MD

Poster # 20 : Ben Buck, MD

12,13-diHOME Attenuates Pro-Arrhythmic Effect of High-Fat Diet

Department of Internal Medicine, Division of Cardiovascular Medicine

PI: Thomas J. Hund, PhD

Poster # 36 : Timothy Frommeyer, MD

Gradient Boosting for Predictive Analysis for Mortality in Patients with Pulmonary Hypertension

Department of Internal Medicine, Division of Cardiovascular Medicine

PI: Rebecca R. Vanderpool, PhD

Poster # 42 : **Piotr Horbal, DO**

Efficacy of Adjunctive Vein of Marshall Ethanol Ablation for Atrial Fibrillation

Department of Internal Medicine, Division of Cardiovascular Medicine

PI: Muhammad Afzal, MBBS

Poster # 57 : Kyu Lee, MD

A Case of Platypnea-Orthodeoxia Syndrome in Setting of Recent Compression Fractures

Department of Internal Medicine, Division of Cardiovascular Medicine

PI: Kyu Lee, MD

Poster # 65 : Sarah MacDowell, MD

A Model for the Combined Use of Bacteriophages and Meropenem Against Pseudomonas Aeruginosa Biofilm

Department of Internal Medicine, Division of Pulmonary, Critical Care & Sleep Medicine

PI: Daniel Wozniak, PhD

Poster # 73 : Mason Mocarski, MD

Efficacy of Intravenous Iron in Patients with Heart Failure: An Updated Meta- Analysis

Department of Internal Medicine, Division of Cardiovascular Medicine

PI: Ajay Vallakati, MBBS

Poster # 75 : Anish Nadkarni, MD

Outcomes of Catheter Ablation for Atrial Arrythmias in Patients with Pulmonary Arterial Hypertension

Department of Internal Medicine, Division of Cardiovascular Medicine

PI: Muhammad Afzal, MBBS

Poster # 80 : Kyle O'Malley, MD

Diagnostic Performance of the Adrenal Vein to Inferior Vena Cava Aldosterone Ratio in Classifying the Subtype of Primary Aldosteronism

Department of Internal Medicine, Division of Cardiovascular Medicine

PI: Wanpen Vongpatanasin, MD

Poster # 104 : Karl Shaver, MD

An Unexpected Cause of Chest Pain Identified on Coronary CTA

Department of Internal Medicine, Division of Cardiovascular Medicine

PI: Blair Suter, MD

Poster # 120 : Andrew Wodarcyk, MD

Clinical Outcomes After Sonographic Assessment of Pulmonary Pressures in The Critically Ill

Department of Internal Medicine, Division of Pulmonary, Critical Care & Sleep Medicine

PI: Rebecca Vanderpool, PhD



Poster # 15 : Ian Bentley, MD

MicroRNA Biomarkers of Ventilator-Induced Lung Injury are Detectable in Distal Airspace Fluid from Heat Moisture Exchange Filters of Mechanically Ventilated Patients

Department of Internal Medicine, Division of Pulmonary, Critical Care & Sleep Medicine

Poster # 59 : Laura Leuenberger, MD

Downregulation of Omega-3 Fatty Acid Metabolites in Obesity May Mediate Increased Risk of Acute Respiratory Distress Syndrome (ARDS)

Department of Internal Medicine, Division of Pulmonary, Critical Care & Sleep Medicine

Poster # 60 : Ning Li, PhD

Sex-Specific Pacemaker Regulation Genes and Pathways Predispose Sinus Tachycardia in Female

Department of Physiology & Cell Biology

Poster # 76 : Drew Nassal, PhD

The βIV-spectrin/STAT3 Complex Regulates the Orientation of Cardiac Hypertrophic Growth

Department of Physiology & Cell Biology

Poster # 130 : Zhentao Zhang, PhD

Repressing αSMA Expression Enhances Cardiac Reprogramming

Department of Surgery, Division of Cardiac Surgery