Poster Session and Reception 1
Monday, July 22, 2024, 4:30-7:00pm, Salon A Lower Level

Poster Session and Reception 2
Tuesday, July 23, 2024, 4:30-7:00pm, Salon A Lower Level

Poster Session and Reception 3
Wednesday, July 24, 2024, 4:30-7:00pm Salon A Lower Level

Monday, July 22, 2024, 4:30-7:00pm
Poster Session and Reception 1

Categories:

Cardio-oncology (Board # Mo001-Mo028)
Clinical/Translational Research (Board # Mo029-Mo051)
Excitation-Contraction Coupling, Ion Channels and Arrhythmias (Board # Mo052-Mo074)
Genetics and Genomics of Cardiovascular Disease (Board # Mo075-Mo087)
Human Cellular Models of Disease (Board # Mo088-Mo098)
Mechanisms of Heart Failure Preserved Ejection Fraction (Board # Mo100-Mo115)
Sarcomeric Function and Contractility (Board # Mo116-Mo123)
Sex-based Differences in Heart Disease (Board # Mo124-Mo132)
Signal Transduction Pathways (Board # Mo134-Mo139)
Cardio-immunology and Inflammation (Board #Mo140)

Control #	Abstract Title	Poster Board #	Presenter	Category
4084249	Inhibition of TAOK1-mediated Cardiomyocyte Death Attenuates Doxorubicin-Induced Cardiotoxicity	Mo001	Masaya Kogure	Cardio-oncology
4086217	Pharmacological Inhibition of p38 MAPK Attenuates Doxorubicin-induced Cardiotoxicity, Senescence, and Inflammation in C57BL/6 mice	Mo002	Mohamed S. Dabour	Cardio-oncology
4086273	Concomitant administration of dantrolene is sufficient to protect against doxorubicin-induced cardiomyopathy	Mo003	Yoshihide Nakamura	Cardio-oncology

4086398	The Protective Effects of Empagliflozin in Carfilzomib-induced Cardiotoxicity in Mice: Unveiling the Crosstalk between Oxidative Stress, Inflammation, Endoplasmic Reticulum Stress, and Autophagy Axes.	Mo004	Mina Y. George	Cardio-oncology
4087441	Association between Congenital Heart Disease and Cancer: A Meta-analysis of 30 Million patients.	Mo005	Vikash Jaiswal	Cardio-oncology
4089330	Molecular Basis of Sepsis-Induced Cardiomyopathy Under Anthracycline Treatment: Insights from Mouse Model	Mo007	Rina Wang	Cardio-oncology
4090236	Sub-strain Dependent Vulnerability to Psychosocial Stress Exacerbates Doxorubicin-induced Cardiotoxicity in Adult Male Mice	Mo008	MARY RAPHEL DANIEL	Cardio-oncology
4090910	Systems genetics approach identifies the genetic basis underlying anthracycline-induced cardiotoxicity	Mo009	Buyan-Ochir Orgil	Cardio-oncology
4091470	Evidence for cardiomyocyte dysfunction in cancer-induced cachexia in mice	Mo010	Attila Kiss	Cardio-oncology
4091514	Selective silencing of p38δ is cardioprotective in female mice during doxorubicin chemotherapy	Mo011	Katy Trampel	Cardio-oncology
4092094	Optimizing Mouse Models of Doxorubicin Cardiomyopathy	Mo012	Casie Curtin	Cardio-oncology
4092898	Regulation of Ferroptosis by Wnt5a in the Heart: Implication in Cardio-Oncology	Mo013	Lai-Hua Xie	Cardio-oncology
4093411	Cardioactive molecules identified by functional in vivo screening prevent anthracycline cardiotoxicity	Mo014	Francesca Bortolotti	Cardio-oncology
4094300	Myeloid Specific PD-L1 Deletion Promotes Cardiac Dysfunction And Myocardial Inflammation	Mo015	Angelica Toro Cora	Cardio-oncology
4095608	Atrial Fibrillation Outcomes in Carcinoid Tumor: A National Inpatient Sample (NIS) Study (2018-2020)	Mo016	Mrunanjali Gaddam	Cardio-oncology

4096001	CXCR3: A Tumor-Conscious Target to Treat Immunotherapy-Induced Myocarditis	Mo017	Yin Sun	Cardio-oncology
4097332	Using a mitochondria-rich hiPSC-CM model to investigate doxorubicin-induced cardiotoxicity	Mo018	Ellen Poon	Cardio-oncology
4097458	Angiotensin II Links Cardiovascular Disease With Enhanced Cancer Growth	Mo019	Benji van Berlo	Cardio-oncology
4097670	Loss of TRAF2 Signaling Mediates Mitochondrial Dysfunction in Doxorubicin-Cardiomyopathy	Mo020	Lorrie Kirshenbaum	Cardio-oncology
4097691	Role of Estrogen and Testosterone in promoting Sex Dimorphism in Doxorubicin Cardiotoxicity.	Mo021	Sharon Ann George	Cardio-oncology
4097850	Doxorubicin induces cardiomyopathy through Wnt5a-mediated induction of senescence	Mo022	Eun-Ah Sung	Cardio-oncology
4098016	Inhibition of Cyp1a Protects Mice against Anthracycline Cardiomyopathy	Mo023	Jing Liu	Cardio-oncology
4098151	Integrated analysis of ex vivo biomechanical ventricular remodeling and imaging-based in vivo strain changes in a pre-clinical murine model of radiation-induced cardiotoxicity	Mo024	Reza Avazmohammadi	Cardio-oncology
4098258	Noninvasive cardiac phenotyping in patients treated with chemo- and immunotherapy for breast cancer	Mo025	Fatemeh Khashami	Cardio-oncology
4098327	ATP-dependent citrate lyase Drives Left Ventricular Dysfunction by Metabolic Remodeling of the Heart	Mo026	Anja Karlstaedt	Cardio-oncology
4098368	Impact of Ventricular Arrhythmias On Outcomes of Patients with Follicular Lymphoma	Mo027	Hiral Amin	Cardio-oncology
4098399	Persistence of Fetal Cardiac Troponin T Modulates Disease	Mo028	Melissa Lynn	Cardio-oncology

	Severity in Anthracycline-Induced Cardiomyopathy			
4075428	Angiotensin Receptor Neprilysin Inhibitor improves cardiac hemodynamics and arrhythmogenesis in mitral regurgitation-induced heart failure—from bench to bedside approach	Mo029	Wei-Ting Chang	Clinical/Translational Research
4078993	Deep learning based multi-omics model for prediction of outcomes in HFpEF and HFmrEF'	Mo030	Sudeshna Fisch	Clinical/Translational Research
4085885	Tissue deficiency and altered eicosanoids levels in rodent and human heart failure.	Mo031	Petr Kala	Clinical/Translational Research
4087445	Biofabrication of Small Vascular Graft using Human Amniotic Membrane	Mo032	Bo Wang	Clinical/Translational Research
4087485	Circulating Long Noncoding RNA Expression Signature Predicts Adverse Cardiovascular Outcomes in Patients with Coronary Artery Disease	Mo033	Wei Lun Song	Clinical/Translational Research
4088988	ACP5 is a co-dysregulate biomarker of atherosclerosis: A translation study from human multiregional atherosclerotic transcriptome omics	Mo034	fangzhou Li	Clinical/Translational Research
4089179	Double (Dual) Sequential Defibrillation Versus Standard Defibrillation for Refractory Ventricular Fibrillation: A Systematic Review and Meta-Analysis	Mo035	Rola Ali	Clinical/Translational Research
4089250	DNA Damage and Repair in Patients Undergoing Myocardial Perfusion Single-Photon Emission Computed Tomography	Mo036	Andrea De Lorenzo	Clinical/Translational Research
4090531	Cardiac-Selective TRPV1 Afferent Ablation in Subacute Myocardial Infarction Ameliorates Adverse Remodeling and Ventricular Arrhythmogenesis	Mo037	Kiyoshi Masuyama	Clinical/Translational Research

4091118	Exploring clinically meaningful change in health-related quality of life and heart problems in a Black population: A Coronary Artery Risk Development in Young Adults Study (CARDIA)	Mo038	Isabelle Pierre-Louis	Clinical/Translational Research
4091668	Risk of Structural and Hemodynamic changes in Left Atrium in Patients with Heart Failure undergoing Percutaneous Left Atrial Appendage Occlusion: A Retrospective Analysis	Mo039	Bharat Rawlley	Clinical/Translational Research
4091954	Enhanced neovascularisation does not account for preservation of cardiac function by 11βHSD1 inhibition in a pig model of myocardial infarction	Mo040	Sara Al Disi	Clinical/Translational Research
4092039	Bile Acid Dysregulation in Response to Right Heart Failure and Hepatic Congestion	Mo041	Arick Park	Clinical/Translational Research
4092202	Poison Peptides May Contribute to Dysregulation of SERCA in Heart Failure	Mo042	Taylor Phillips	Clinical/Translational Research
4092223	Advanced waveform analysis of the electrocardiogram signals using complementary signal processing techniques to investigate the response to a QTc prolonging drug vs control including food effect.	Mo043	Jorg Taubel	Clinical/Translational Research
4092340	Minimally Invasive Delivery of Mesenchymal Stem Cell-derived Exosomes Improves Heart Repair in Pigs	Mo044	Yuan Li	Clinical/Translational Research
4093641	The metabolic landscape of Fontan-associated liver disease	Mo045	Rasheed Sule	Clinical/Translational Research
4094441	GJA1-20k Restores Connexin-43 Trafficking and β-Catenin Signaling in Myocytes Lacking Desmoplakin	Mo046	Mario Maalouf	Clinical/Translational Research
4095157	DNA METHYLATION AND TRANSCRIPTIONAL MARKERS OF MYOCARDIAL REVERSE REMODELING IN HF PATIENTS ON LVAD SUPPORT	Mo047	Thirupura S Shankar	Clinical/Translational Research

4096899	Cereblon as a potential biomarker for early detection of diabetic cardiomyopathy	Mo048	Sung Woo Cho	Clinical/Translational Research
4097345	Loss of Y chromosome and cardiovascular events in chronic kidney disease	Mo049	Andreas Zeiher	Clinical/Translational Research
4097518	Fluoroquinolones and the Risk of Aortic Aneurysm or Aortic Dissection: Evidence From a Nationwide Nested Case-Control Study Paralleled With Matched Experimental Models	Mo050	Callan Dwaine Wesley	Clinical/Translational Research
4097886	Phototherapy to stimulate carnosine activity and enhance global heart function: A promising adjunctive therapy for congestive heart failure (CHF)	Mo051	James Kneller	Clinical/Translational Research
4081856	Electrocardiographic behavior, arrhythmias, and mortality in two calcium management strategies (cytoplasmic and mitochondrial) in hearts under ischemia.	Mo052	Enio R Vasques	Excitation-Contraction Coupling, Ion Channels and Arrhythmias
4082247	Acacetin's Antiarrhythmic Potential in Human-Induced Pluripotent Stem Cell-Derived Cardiomyocytes Harboring Hypertrophic and Dilated Cardiomyopathy-Related Mutations	Mo053	mena Fawzy abdelsayed	Excitation-Contraction Coupling, Ion Channels and Arrhythmias
4087996	Long Noncoding RNA LINC00667 Downregulation Leads to SCN5A Alternative Splicing and Arrhythmogenesis	Mo054	Gyeoung-Jin Kang	Excitation-Contraction Coupling, Ion Channels and Arrhythmias
4089023	CHD4 Interacts With TBX5 to Maintain the Gene Regulatory Network of Postnatal Atrial Cardiomyocytes	Mo055	Mason Sweat	Excitation-Contraction Coupling, Ion Channels and Arrhythmias
4091250	Cholinergic Activation Suppresses Optogenetic Stimulation of Intrinsic Cardiac Catecholaminergic Neurons in Perfused Mouse Hearts	Mo056	Rebekah Russo	Excitation-Contraction Coupling, Ion Channels and Arrhythmias

4091252	Computational Modeling Reveals Enhanced Ca2+-Driven Arrhythmias in Female Patients with Atrial Fibrillation	Mo057	Haibo Ni	Excitation-Contraction Coupling, Ion Channels and Arrhythmias
4091621	Cellular and Subcellular Ventricular Localization of the Fast Transient Outward Potassium Channels in the Murine Heart	Mo058	Renee A. Gorman	Excitation-Contraction Coupling, Ion Channels and Arrhythmias
4091633	Leucine-Rich Repeat-Containing Protein 10 Modulates Human Cardiac L-Type Ca2+ Channels but not T-Type Ca2+ Channels	Mo059	Natthaphat Siri-Angkul	Excitation-Contraction Coupling, Ion Channels and Arrhythmias
4092875	SPEG mediates increased atrial fibrillation incidence in chronic kidney disease	Mo060	Jose Alberto Navarro Garcia	Excitation-Contraction Coupling, Ion Channels and Arrhythmias
4092923	The major voltage-gated sodium channel accessory subunit in working ventricular myocytes may be β1B, not β1	Mo061	Zachary Williams	Excitation-Contraction Coupling, Ion Channels and Arrhythmias
4093285	Cpne5 is Necessary for Normal Sinoatrial Node Function	Mo062	Katherine Dang	Excitation-Contraction Coupling, Ion Channels and Arrhythmias
4094298	Hacking the ubiquitin code to distinctively modulate ion channel functional expression	Mo063	Sri Karthika Shanmugam	Excitation-Contraction Coupling, Ion Channels and Arrhythmias
4094599	Na+ leak channel NALCN plays an essential role in mineralocorticoid-induced hypertension through nonrenal mechanisms.	Mo064	HYE RYEONG LEE	Excitation-Contraction Coupling, Ion Channels and Arrhythmias

4095000	An Anti-arrhythmic Action and Novel Molecular Mechanisms of Alda-1 in Holiday Heart Syndrome	Mo065	Saugat Khanal	Excitation-Contraction Coupling, Ion Channels and Arrhythmias
4096558	A Bifunctional Actuator Reverses NaV1.5 Dysfunction Linked To Cardiac Arrhythmias	Mo066	Lucile Fossier	Excitation-Contraction Coupling, Ion Channels and Arrhythmias
4097647	Fibroblasts in heart scar tissue directly regulate cardiac excitability and arrhythmogenesis	Mo067	Yijie Wang	Excitation-Contraction Coupling, Ion Channels and Arrhythmias
4097738	The role of FGF13 in modulating gap junction protein Connexin-43	Mo068	LALA TANMOY DAS	Excitation-Contraction Coupling, Ion Channels and Arrhythmias
4097992	Phospholamban Acetylation Enhances Cardiomyocyte Calcium Cycling Under Conditions of High-Fat Feeding	Mo069	Janet Manning	Excitation-Contraction Coupling, Ion Channels and Arrhythmias
4098224	Metabolic Syndrome Alters cAMP Homeostasis and Contractile Function of Cardiomyocytes	Mo070	Marcello Rota	Excitation-Contraction Coupling, Ion Channels and Arrhythmias
4098396	Engineered Platform to Uncover Cellular Cross-Talk and Arrhythmogenesis in Idiopathic Ventricular Fibrillation (IVF)	Mo071	Mitchell Josvai	Excitation-Contraction Coupling, Ion Channels and Arrhythmias
4098455	Sustained Biological Pacemaker Activity Induced by AAV9-hTBX18	Mo072	Rodrigo Miguel dos Santos	Excitation-Contraction Coupling, Ion Channels and Arrhythmias

4098458	Elucidating the Role of Cardiac Radiotherapy on the Sympathetic Nervous System as a Treatment for Ventricular Tachycardia	Mo073	Sherwin Ng	Excitation-Contraction Coupling, Ion Channels and Arrhythmias
4099103	Overexpression of IPP2 Impairs Intracellular Calcium Handling, Leading to Arrhythmogenic Events	Mo074	Somy Yoon	Excitation-Contraction Coupling, Ion Channels and Arrhythmias
4090095	Cigarette smoking causes somatic mutations in cardiac endothelial cells	Mo075	Zinan Zhou	Genetics and Genomics of Cardiovascular Disease
4090101	Combining Monogenic and Polygenic Analysis Improves Sudden Cardiac Death Risk Prediction	Mo076	Tanner O Monroe	Genetics and Genomics of Cardiovascular Disease
4090859	Cardiac Troponin I3 Kinase in Viral Myocarditis	Mo077	Kelsey Tjen	Genetics and Genomics of Cardiovascular Disease
4091455	Identifying Genetic Determinants of Phytosterol Levels: A Genome-Wide Association and Meta-Analysis Study Unveils a New Locus Influencing Campesterol Serum Concentrations	Mo078	Georges Nemer	Genetics and Genomics of Cardiovascular Disease
4091755	Analyzing the Predicted Impact of Published SCN5A Variants in Juvenile-Onset Sick Sinus Syndrome	Mo079	Snekha Rajasekaran	Genetics and Genomics of Cardiovascular Disease
4093049	Clinically Variable Penetrant MYH7 G256E Mutation Shows Gene-Dose-Dependent HCM Disease Phenotype on a Transcriptomic, Proteomic, and Functional Level	Mo080	Paul Heinrich	Genetics and Genomics of Cardiovascular Disease
4093458	Genetic Deletion of Histone Lysine Demethylase KDM5A in Cardiomyocytes Attenuates LMNA-associated Dilated Cardiomyopathy	Mo081	Manisha Deogharia	Genetics and Genomics of Cardiovascular Disease

4097752	Polygenic Assessment for Atrial Fibrillation Liability Predicts Ventricular Arrhythmia Risk	Mo082	Megan Puckelwartz	Genetics and Genomics of Cardiovascular Disease
4098229	Stem Cell-Based Functional Genomics Unravel A Novel Vascular Smooth Muscle Cell State Induced By The 9p21 Coronary Artery Disease Risk Locus	Mo084	Valentina Lo Sardo	Genetics and Genomics of Cardiovascular Disease
4098293	Direct effect of sodium-glucose cotransporter 2 (SGLT2) inhibitors on cardiomyocyte function as a potential therapy for Phospholamban cardiomyopathy	Mo085	David Staudt	Genetics and Genomics of Cardiovascular Disease
4098431	Functional impact of phosphorylation-site mutations on PKA response of Kir2.1	Mo086	Saba Munawar	Genetics and Genomics of Cardiovascular Disease
4098460	A shared gene regulatory network underlies atrial pathophysiology in atrial fibrillation and heart failure mouse models	Mo087	Sonja Lazarevic	Genetics and Genomics of Cardiovascular Disease
4088787	RBFOX2 haploinsufficiency impairs cardiomyocyte adhesion and contractility through faulty RNA metabolism	Mo088	Mengmeng Huang	Human Cellular Models of Disease
4088872	Fontan-Associated Liver Disease On A Chip	Mo089	Sarah Rezapourdamanab	Human Cellular Models of Disease
4090434	Altered Cardiac Cell Populations in Hypoplastic Left Heart Syndrome	Mo090	Sarah Morton	Human Cellular Models of Disease
4090750	Analysis of GLA Gene Mutation Using a Female Fabry Disease Patient-derived Induced Pluripotent Stem Cells.	Mo091	Yukihiro Saito	Human Cellular Models of Disease
4090960	Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes as an In Vitro Model to Evaluate the Efficacy of a Gene Replacement Therapy for Plakophilin-2-Associated	Mo092	Isaac Perea Gil	Human Cellular Models of Disease

	Arrhythmogenic Right Ventricular Cardiomyopathy			
4092269	Rescue of Desmin Insufficiency Restores Contractile Function in Cardiomyocytes with MYH7 E848G Dilated Cardiomyopathy Variant	Mo093	Alexander Loiben	Human Cellular Models of Disease
4093206	Cardiomyocytes Differentiated from Human Induced Pluripotent Stem Cells Show Robust Phenotypes to Test Gene Therapy Strategies for Duchenne Muscular Dystrophy	Mo094	Asuka Eguchi	Human Cellular Models of Disease
4096138	Variant Effect Mapping by Combining Base-editing Mutagenesis and Multiplexed Functional Assays Using Human Cardiomyocytes	Mo095	Yuta Yamamoto	Human Cellular Models of Disease
4097573	High-Throughput Functional Determination of TNNI3 Variant Pathogenicity	Mo096	Peter Phuc Quang Tran	Human Cellular Models of Disease
4097865	Inhibiting the Sarcomere Improves Diastolic Dysfunction in Patient-Derived hiPSC-CM Models of Pediatric Restrictive Cardiomyopathy	Mo097	David Wells Staudt	Human Cellular Models of Disease
4098228	LMNA R190W Mutation Associated With Dilated Cardiomyopathy Causes Hypercontractility in iPSC-derived Cardiomyocytes and Engineered Heart Muscles	Mo098	Melissa Hector-Greene	Human Cellular Models of Disease
4089606	Predictive Accuracy of Rightward Extrapolation of the Left Ventricular End-Diastolic Pressure-Volume Relationship in Healthy Swine	Mo100	Filip Konecny	Mechanisms of Heart Failure Preserved Ejection Fraction
4089640	3-Mercaptopyruvate Sulfurtransferase is a Critical Regulator of Branched-Chain Amino Acid Catabolism in Cardiometabolic HFpEF	Mo101	Zhen Li	Mechanisms of Heart Failure Preserved Ejection Fraction

4089731	Swine Model of Heart Failure with Preserved Ejection Fraction Driven by Lipoprotein Lipase Inhibition and Enhanced Cardiac Low-Density Lipoprotein Receptor Expression	Mo102	Jose Manuel Condor	Mechanisms of Heart Failure Preserved Ejection Fraction
4090231	Aberrant Trans- and De-Nitrosylation Underpins Nitrosative Stress in Cardiometabolic HFpEF	Mo103	Zhen Li	Mechanisms of Heart Failure Preserved Ejection Fraction
4090446	Cardiolipin-Metabolite Crosstalk in HFpEF	Mo104	Ali Kamiar	Mechanisms of Heart Failure Preserved Ejection Fraction
4090570	End Systolic Pressure and Ejection Timing Correlate with Impaired Relaxation	Mo105	Yoshio Wagner	Mechanisms of Heart Failure Preserved Ejection Fraction
4090934	Inhibition of microRNA-200c promotes regeneration of the ischemic injured myocardium through activation of developmental pathways	Mo106	Riley J Leonard	Mechanisms of Heart Failure Preserved Ejection Fraction
4091159	Age-Related Impairment of Mitochondrial Protein Turnover Exacerbates Pathogenesis of Heart Failure with Preserved Ejection Fraction in Old Mice	Mo107	Kamil A Kobak	Mechanisms of Heart Failure Preserved Ejection Fraction
4093077	Sex-specific Impact of Glutathione Precursor-supplemented Diet on the Aging Mouse Heart	Mo108	Aude Angelini	Mechanisms of Heart Failure Preserved Ejection Fraction
4093189	Importance of Myocyte Serine De Novo Biosynthesis and its Downregulation in Heart Failure	Mo109	Mohammad Keykhaei	Mechanisms of Heart Failure Preserved Ejection Fraction

4093222	The role of cardiac atypical kinase in HFpEF	Mo110	Mikito Takefuji	Mechanisms of Heart Failure Preserved Ejection Fraction
4093776	Comparison of Pre-Clinical Models of Heart Failure with Preserved Ejection Fraction Using Multimodal Approaches	Mo111	Jean Wassenaar	Mechanisms of Heart Failure Preserved Ejection Fraction
4095179	ARA290, a small peptide non-erythropoietic Erythropoietin derivative, ameliorates heart functional deterioration in a chronic cardiac stress model	Mo112	Suri Gime	Mechanisms of Heart Failure Preserved Ejection Fraction
4095401	An Ovary-Intact Postmenopausal HFpEF Animal Model.	Mo113	Mei Methawasin	Mechanisms of Heart Failure Preserved Ejection Fraction
4097772	Assessing Diastolic Performance in Working Myocardial Slices from ZSF1 Rats	Mo114	Matthew A Caporizzo	Mechanisms of Heart Failure Preserved Ejection Fraction
4097818	Aging Heart Failure with Preserved Ejection Fraction is Mediated by Noncoding RNAs	Mo115	Sankalpa Chakraborty	Mechanisms of Heart Failure Preserved Ejection Fraction
4093530	Evaluating MYBPC3 and MYBPHL missense mutations on sarcomere incorporation	Mo116	Kelly Araujo	Sarcomeric Function and Contractility
4093575	Investigation of Mechanisms to Modulate Contractility in 13-Lined Ground Squirrels	Mo117	Maighdlin Patterson	Sarcomeric Function and Contractility
4093716	Myofilament proteolysis may underlie contractile remodeling in atrial fibrillation	Mo118	Hannah Cizauskas	Sarcomeric Function and Contractility
4097242	PI3Kgamma regulates CamKII mediated phosphorylation of phospholamban and SR calcium cycling	Mo119	Maradumane L Mohan	Sarcomeric Function and Contractility

4097603	Overexpression of Prostaglandin E2 EP3 Receptor Subtype Alters Calcium-Handling Proteins in Mouse Hearts	Mo120	Shaheen Yawar Bhat	Sarcomeric Function and Contractility
4098162	Sarcomere activation biosensor reveals key functional differences in live cell active states between cardiac and skeletal muscle	Mo121	Ashley A Martin	Sarcomeric Function and Contractility
4098345	Investigating the Role of the Lysine Methyltransferase SMYD1 in Striated Muscle Motor Domain Folding	Mo122	Dakota Hunt	Sarcomeric Function and Contractility
4098373	Post-transcriptional Mechanisms of BAG3 Regulation in Ischemia-Reperfusion Injury	Mo123	Laura A Sherer	Sarcomeric Function and Contractility
4085625	New Rho-kinase Inhibitor Reduces Diastolic Dysfunction induced by Estrogen Depletion in Spontaneously Hypertensive Rats	Mo124	Gisele Zapata-Sudo	Sex-based Differences in Heart Disease
4087463	Translating ECG responses to drugs across sexes: model development and validation in the clinic	Mo125	Roshni Shetty	Sex-based Differences in Heart Disease
4087745	A sex-specific CD4+ T cell response limits Coxsackievirus B pathogenesis in mice.	Mo126	Christopher Robinson	Sex-based Differences in Heart Disease
4092051	Nitrate Supplementation Plus Voluntary Activity in C57Bl/6 Mice Improves Fitness and Impairs Cardiac Calcium Handling In a Sex Specific Fashion	Mo127	Elise Bisset	Sex-based Differences in Heart Disease
4095926	Elevation in male sex hormone metabolites with increased risk factors for inflammation and clotting in female kidneys following chronic binge drinking	Mo129	Prasanth Nair Puthanveetil	Sex-based Differences in Heart Disease
4097461	Epigenetic Mechanisms Regulate Sex Differences in Cardiac Reparative Functions of Bone Marrow Progenitor Cells	Mo130	Charan T Gurrala	Sex-based Differences in Heart Disease
4098088	Time-Restricted Feeding Normalizes Dim Light at Night-Induced Disruption of Cardiovascular Rhythms in Mice	Mo131	Abhilash Prabhat	Sex-based Differences in Heart Disease

4098296	Pouring Salt in the Wound: Sex-specific Cardiometabolic Responses to Increased Dietary Fat, Sugar, and Salt.	Mo132	Helen E Collins	Sex-based Differences in Heart Disease
4086344	Restoring NaV1.5 Mutant Functionality in Arrhythmia with ManNAc Supplementation	Mo134	Adriana Tarantino	Signal Transduction Pathways
4089742	Correlation of Leptin Resistance With Attenuation of Cardiac Vagal Activation in Type 2 Diabetes	Mo135	Anthony Evans	Signal Transduction Pathways
4093196	Modulation of the Inflammatory and Fibrotic Effects of Angiotensin on Cardiomyocytes through YAP-mediated Transcription.	Mo137	Joan Heller Brown	Signal Transduction Pathways
4093277	Renal NPFFR2-mediated increase in blood pressure is associated with downregulation of cAMP signaling and upregulation of Na+/K+-ATPase protein expression in the renal proximal tubule	Mo138	Bibhas Amatya	Signal Transduction Pathways
4098137	PDE1, 3 and 4 Inhibition and GPCR Agonism in the Regulation of cAMP Signaling	Mo139	Michael Fitch	Signal Transduction Pathways
4091536	Macrophage Piezo1 exacerbates cardiac dysfunction through inhibiting clearance of apoptotic cardiomyocytes after myocardial infarction	Mo140	Yajing Wang	Cardio-immunology and Inflammation

Tuesday, July 23, 2024, 4:30-7:00pm
Poster Session and Reception 2

Categories:

Extracellular Vesicles and Exosome Biology (Board # Tu001-Tu008)
Inflammation, Thrombosis and Vascular Biology (Board # Tu010-Tu035)
Interorgan Links in Cardiovascular Disease – NEW (Board # Tu036-Tu044)
Mechanisms of Cardiac Remodeling, Hypertrophy and Failure (Board # Tu046-Tu093)
Mechanisms of Myocardial Fibrosis (Board # Tu094-Tu102)
Mitochondria and Metabolism (Board # Tu103-Tu126)
Myocardial Ischemia, Oxidative Stress, and Cardioprotection (Board # Tu127-Tu146)

Control #	Abstract Title	Poster Board #	Presenter	Category
4076585	MiR-21 mitigated pulmonary hypertension induced right ventricular dysfunction through pulmonary circulating exosomes	Tu001	Wei-Ting Chang	Extracellular Vesicles and Exosome Biology
4089030	Mesenchymal Stem Cell-Derived Extracellular Vesicles Mitigate Mitochondrial DNA-Induced Activation of Porcine Peripheral Blood Mononuclear Cells	Tu002	Sumbule Zahra	Extracellular Vesicles and Exosome Biology
4091357	The angiotensinogen/vasorin ratio in peripheral blood, a biomarker for preeclampsia	Tu003	Saravanakumar Murugesan	Extracellular Vesicles and Exosome Biology
4091548	Global distribution of cardiac exosomes after myocardial infarction	Tu004	Xinjie Wang	Extracellular Vesicles and Exosome Biology
4093026	Small Extracellular Vesicles Derived from Bovine Milk Contain an Endogenous Carboxyl Terminal Polypeptide of The Gap Junction Protein Connexin-43	Tu005	Md Ruhul Amin	Extracellular Vesicles and Exosome Biology
4094548	Endothelial exosomes work as a functional mediator to activate macrophages	Tu006	Wenwen Lin	Extracellular Vesicles and Exosome Biology

4096511	The Impact of Shear-Thinning Hydrogel Delivery on Extracellular Vesicle Cardiac Retention	Tu007	Touba Tarvirdizadeh	Extracellular Vesicles and Exosome Biology
4097086	Efficient Intramyocardial Delivery of EV-Encapsulated AAVs to Target Cardiomyocytes in a Pre-Clinical Swine Model	Tu008	Alex Gallinat	Extracellular Vesicles and Exosome Biology
4089366	Matrix metallopeptidase 9 contributes to the beginning of plaque and is a potential biomarker for the early identification of atherosclerosis in asymptomatic patients with diabetes	Tu010	Lei Ye	Inflammation, Thrombosis and Vascular Biology
4090140	Targeted chelation therapy decreases Cryopyrin/NLRP3 expression and acts as senomorphic in Chronic Kidney Disorder induced Vascular Calcification.	Tu011	Shivani Arora	Inflammation, Thrombosis and Vascular Biology
4090857	Innate Immune Pathway cGAS-STING in Macrophage Function in Atherosclerosis	Tu012	MariaSanta C Mangione	Inflammation, Thrombosis and Vascular Biology
4091278	ETV2 Transcriptionally Activates Rig1 Gene Expression and Promotes Reprogramming of the Endothelial Lineage	Tu013	Young Geun Choi	Inflammation, Thrombosis and Vascular Biology
4091879	Endoplasmic reticulum stress exacerbates atherosclerosis via microRNA-181a by inhibiting mitophagy	Tu014	Lingjun Wang	Inflammation, Thrombosis and Vascular Biology
4092056	Angiopoietin-like 4 Stabilizes Atherosclerotic Plaques by Modulating the Phenotypic Transition of Endothelial Cells and Vascular Smooth Muscle Cells	Tu015	Dong-Im Cho	Inflammation, Thrombosis and Vascular Biology
4092214	Alleviating Aortic Valve Calcification By Blocking TNFα Receptors	Tu016	Zar Chi Thent	Inflammation, Thrombosis and Vascular Biology

4092780	MerTK inhibition aggravates partial carotid ligation-induced atherosclerosis	Tu017	Zufeng Ding	Inflammation, Thrombosis and Vascular Biology
4093161	Integrin alpha 1 plays a critical role in angiotensin II-induced abdominal aortic aneurysm rupture	Tu018	Naofumi Amioka	Inflammation, Thrombosis and Vascular Biology
4093270	Single-Cell RNA Sequencing Identifies IFNICs as a Cellular Target for Mitigating the Progression of Abdominal Aortic Aneurysm and Rupture Risk	Tu019	Sheng Le	Inflammation, Thrombosis and Vascular Biology
4094841	Contrasting effect of Ox-PAPC and PC-KLH in atherosclerotic plaques or peripheral blood T cell, macropahges and dendritic cell activation	Tu020	Mizanur Rahman	Inflammation, Thrombosis and Vascular Biology
4097512	Genome-wide CRISPR Screen In Vivo Decodes Monocyte Infiltration Associated With Abdominal Aortic Aneurysm	Tu021	Haocheng Lu	Inflammation, Thrombosis and Vascular Biology
4097541	Gut-derived bacterial metabolites promote cardiac inflammation, leading to heart failure in murine model of DSS-induced colitis	Tu022	Prabhat Ranjan	Inflammation, Thrombosis and Vascular Biology
4097588	The VEGF-A splice variants as a mechanism of impaired Inflammatory Angiogenesis in the context of advanced aging.	Tu023	Chris S Mantsounga	Inflammation, Thrombosis and Vascular Biology
4097874	Nitric oxide-dependent Vasodilation in Preeclampsia is impaired due to dysregulated L-arginine pathways and reduced cyclic Guanosine Monophosphate activity	Tu024	Julio Valdivia-Silva	Inflammation, Thrombosis and Vascular Biology
4097911	Exploring Metabolomic Profiles in Vitamin D Deficient and Obese Individuals: Relevance to Arterial Stiffness	Tu025	Adel B Elmoselhi	Inflammation, Thrombosis and Vascular Biology
4098013	Impact of Atherosclerosis-Related Small Cerebral Vessel Damages on Tau Pathology in Atherosclerosis Mouse Model	Tu027	Jingyan Han	Inflammation, Thrombosis and Vascular Biology

4098059	NADPH Oxidase Inhibition Antagonizes Endothelial Pro-inflammatory and Pro-oxidant Signaling Resulting in Enhanced Coronary Vasorelaxation in Diabetic Models	Tu028	Debolina Banerjee	Inflammation, Thrombosis and Vascular Biology
4098091	Effects of the phosphodiesterase inhibitors, cilostazol and ensifentrine, on alveolar-capillary dysfunction caused by MRSA	Tu029	Mohammed Yaman AL Matni	Inflammation, Thrombosis and Vascular Biology
4098148	High-density Lipoprotein Induces Arginase I Expression in M1 Macrophages	Tu030	Wei-Ling Lin	Inflammation, Thrombosis and Vascular Biology
4098335	Immunosuppression Drug Modulation of Endothelial Cell Function	Tu031	Ryan Johannes Dexheimer	Inflammation, Thrombosis and Vascular Biology
4098364	LRRC8 complex regulates platelet activation and thrombosis	Tu032	John David Tranter	Inflammation, Thrombosis and Vascular Biology
4098365	CXCL5: The Next Guardian of the Galaxy to challenge Atherosclerosis	Tu033	Rebekah Sanchez-Hodge	Inflammation, Thrombosis and Vascular Biology
4098370	Endothelial cell regeneration by secretome obtained from P53 silenced bone marrow derived mesenchymal stromal cells (BM-MSCs)	Tu034	Sabyasachi Sen	Inflammation, Thrombosis and Vascular Biology
4099111	Targeted Downregulation of MKI67 Mediated by miR-10b-5p Contributes to the Pathogenesis of Kawasaki Vasculitis	Tu035	Somy Yoon	Inflammation, Thrombosis and Vascular Biology
4087533	Adipose tissue plasticity in response to early pathological stress on the heart and mediation by adipose thermogenic activation	Tu036	Natasha Maria James	Interorgan Links in Cardiovascular Disease - NEW
4090822	Unraveling the Cellular Mechanisms of Cardiogenic Liver Disease	Tu037	Joel Schilling	Interorgan Links in Cardiovascular Disease - NEW

4091641	Difference in Cardiac Preload Activation using Afterload Manipulation by Phenylephrine as Compared to Transient Mechanical Occlusion of Carotid Artery in Healthy Rats	Tu038	Filip Konecny	Interorgan Links in Cardiovascular Disease - NEW
4093033	Intestinal atrophy contributes to low-grade inflammation, cardiac dysfunction and metabolic syndrome-like phenotype in a model of heart failure with preserved ejection fraction.	Tu039	Duyen Tran	Interorgan Links in Cardiovascular Disease - NEW
4096378	A Novel Anti-Thrombotic and Anti-AF Drug without an Adverse Bleeding Problem	Tu040	Nikola Ricchiuti	Interorgan Links in Cardiovascular Disease - NEW
4097599	Gut microbiome Bifidobacterium is associated with improvement in severity of heart failure with reduced ejection fraction	Tu041	Petra Mamic	Interorgan Links in Cardiovascular Disease - NEW
4098198	Fatty Acid Dysregulation Drives Cardio-Hepatic Crosstalk in Heart Failure with Preserved Ejection Fraction (HFpEF)	Tu042	Bellina Mushala	Interorgan Links in Cardiovascular Disease - NEW
4098281	Gut Microbial Metabolite Phenylacetylglutamine Leads to Cardiomyocyte Hypercontractility and Vascular Endothelial Cell Activation	Tu043	Thomas Sharp	Interorgan Links in Cardiovascular Disease - NEW
4098375	Cardiac Mitochondrial Dysfunction Induces Region-Specific Mitochondrial Stress Response In The Brain To Adapt Neuronal Changes	Tu044	Zinnia Tran	Interorgan Links in Cardiovascular Disease - NEW
4076762	Mechanisms of Epicardium-Directed Cardiac Repair	Tu046	David Wong	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure
4086877	Carbonic anhydrase inhibitors (CAIs) mitigate cardiac amyloid β pathology, attenuating neuro-signaling adverse remodeling and improving cardiac function in the Tg2676- AD mouse model.	Tu047	Andrea Elia	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure

4086903	Viscoelastic remodeling of the left ventricular myocardium in myocardial infarction	Tu048	Reza Avazmohammadi	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure
4087467	Stabilization of RyR2 with dantrolene treatment ameliorates left ventricular remodeling and ventricular tachycardia after myocardial infarction	Tu049	Shohei Fujii	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure
4088007	Deficiency Of Mitochondrial Disulfide Relay Carrier Leads To Cardiac Hypertrophy	Tu050	Annie Son	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure
4088789	ROR2 Drives Right Ventricular Failure Via Proteostatic Imbalances	Tu051	Jonathan Edwards	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure
4090074	RPN6-Serine14 Phosphorylation by PKA Protects Against Systolic Overload-Induced Cardiac Remodeling and Heart Failure	Tu052	Md Salim Ahammed	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure
4090092	Activin Signaling Inhibition Enhances Cardiac Functional Recovery After Aortic Debanding	Tu053	Anand Prakash Singh	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure
4090334	Deficiency or targeting inhibition of histone lysine demethylase KDM5B in vivo for potential therapeutic effects on both HFrEF and HFpEF	Tu054	Wen Zhao	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure
4091116	Prominent effects of p38 MAPK inhibition on the phosphoproteome of a guinea pig model of heart failure and sudden cardiac death	Tu055	Sogol Sedighi	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure

4091269	A Two-Hit HFpEF-like Mouse Model with Accelerated Disease Onset	Tu056	Nikki Bennett	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure
4091402	Renal denervation enhances right ventricular function, reduces myocardial damage, and restores myocardial sympathetic signaling in rats with heart failure induced by volume overload	Tu057	Matus Miklovic	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure
4091690	Reverse Remodeling with LVAD Therapy is Associated with Alternative Splicing of CAMK2D	Tu058	Thomas Martin	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure
4091697	Single-Nucleus Transcriptomics Demonstrates Endothelial Cell Expansion in Failing Human Right Ventricles	Tu059	Ivan Kuznetsov	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure
4091705	Unveiling Arrhythmogenic Right Ventricular Dysplasia In Pregnancy	Tu060	Devi Parvathy Jyothi Ramachandran Nair	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure
4091718	Pericyte-mediated perivascular fibrosis in the pressure-overloaded heart is dependent on TGF-β signaling and is restrained by ITGB1.	Tu061	Izabela Tuleta	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure
4091799	FLNC Deficiency Triggers Unfolded Protein Response and Leads to Dilated Cardiomyopathy	Tu062	He Xuan	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure
4092097	Acute sleep deprivation induces cardiac remodeling via activation of AT1R/ERK/GSK-3β signaling	Tu063	Tao Luo	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure

4092242	Abnormal Calcium Regulation Leads to Pathological Cardiac Hypertrophy During Pregnancy in the GSNOR-Deficient Mouse Model of Preeclampsia	Tu064	Raul Dulce	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure
4092245	The role of heavy metals in pulmonary arterial hypertension pathogenesis	Tu065	Dakotah D Cathey	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure
4092416	Loss of Sigmar1 Aggravated Cardiac Proteotoxicity and Cardiac Dysfunction in Mutant αB-Crystallin Mouse	Tu066	Richa Aishwarya	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure
4093596	ROCK2 Specific Inhibition Prevents Isoproterenol Induced Takotsubo Cardiomyopathy in Mice	Tu067	Daniel Fehrenbach	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure
4093686	Calmodulin Kinase II is a Mutation-Specific Driver of Disease in Hypertrophic Cardiomyopathy	Tu068	Garrett Hauck	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure
4094254	Development of a Novel Biallelic, Haploinsufficient Mouse Model of MYBPC3 Related Hypertrophic Cardiomyopathy	Tu069	Joshua Meisner	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure
4096226	Impact of Hypertrophic Cardiomyopathy in Hospitalizations with Aortic Stenosis : A National Inpatient Sample survey	Tu070	Rohit Sekandlapuram	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure
4096528	Computational Modeling to Predict Mechanisms of DYRK1A-mediated Inhibition of Cardiomyocyte Proliferation	Tu071	Bryce Murillo	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure

4096784	O-GlcNAcylation underlies the activation of sodium-glucose cotransporter 1 in diabetic hearts	Tu072	Vivek Kumar Pandey	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure
4096809	Mst1 induces cardiac dysfunction through the activation of PERK	Tu073	Risa Mukai	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure
4096955	A Potential Link Between Stress Kinase JNK2 and AKAP-1 in Catecholamine-Induced Acute Heart Failure	Tu074	Aaryan Kohli	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure
4097294	Cardiac macrophages expressing CD206 and IL-4Ra are required for adverse LV remodeling in HF	Tu075	Qiongxin Wang	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure
4097419	N4-acetylcytidine-regulated Cardiomyocyte Ferroptosis Mediates Cardiac Benefits of Exercise in Aging	Tu076	Jiayi Kang	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure
4097526	Targeting β-adrenergic receptor resensitization attenuates cardiac dysfunction	Tu077	Yu Sun	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure
4097608	Mechanistic basis of protein phosphatase 2A inhibition by I2PP2A dimerization: A key step in βAR resensitization	Tu078	Anushruti Ashok	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure
4097624	The Calcium Handling Machinery and Electrophysiology is Remodeled in Friedreich's Ataxia	Tu079	Bojjibabu Chidipi	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure

4097665	Unique Physiology of Fibroblast and Immune Cells in the Right Ventricle	Tu080	Madeline Burghaze	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure
4097764	T-tubule microdomains promote protective mitophagy in failing hearts	Tu081	Bradley Richmond	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure
4097907	Novel Structural and Biochemical Effects of Nexilin Associated Hypertrophic Cardiomyopathy	Tu082	Harshil Chittora	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure
4098051	Oxytocin improves cardiovascular outcomes in a rat model of pressure-overload heart failure	Tu083	Bridget Alber	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure
4098057	Endothelial Cell STING contributes to Systolic Dysfunction by modulating cardiomyocyte hypertrophy and capillary density in pressure overload-induced heart failure	Tu084	Erin Sanders	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure
4098068	The βIV-spectrin/STAT3 Complex regulates the orientation of cardiac hypertrophic growth	Tu085	Drew Nassal	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure
4098144	Repairing nuclear envelope ruptures to ameliorate Lamin-related cardiomyopathy	Tu086	Atsuki En	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure
4098155	Knockout of TIGAR Rescues Cardiac Dysfunction in SIRT3 Knockout Mice	Tu087	Jessie Besanson	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure

4098201	Fibroblast Activation, Collagen Secretion, and Migration Occurs Independently of Has2 Expression	Tu088	Danielle Little	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure
4098237	p21 Regulates Hypertrophic Cardiomyopathy Remodeling By Inhibition of Cardiomyocyte Endoreplication	Tu089	Soumojit Pal	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure
4098300	P21-activated kinase 1 safeguards cardiac function from impairment during fasting	Tu090	John Yarbro	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure
4098303	Mechanism of beta1-adrenergic receptor signaling by IgG3 subclass of autoantibodies	Tu091	Maradumane L Mohan	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure
4098312	Role of Z-disc as a Driver of Hypertrophy and Sarcomere Assembly in Hypertrophic Cardiomyopathy	Tu092	PRERNA GIRI	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure
4098313	Adeno-associated virus-mediated gene delivery of PERM1 enhances cardiac contractility and mitochondrial biogenesis in mice.	Tu093	KARTHI SREEDEVI	Mechanisms of Cardiac Remodeling, Hypertrophy and Failure
4073765	p53 Regulates the Extent of Fibroblast Proliferation and Fibrosis in Left Ventricle Pressure Overload	Tu094	Xiaoyi Liu	Mechanisms of Myocardial Fibrosis
4084739	The Aryl Hydrocarbon Receptor Agonist, L-Kynurenine, Modulates Cardiac Fibroblast Activation and Antigen Presentation	Tu096	Brandon Theall	Mechanisms of Myocardial Fibrosis
4090023	Titin cleavage induces loss of myocardial tensional homeostasis driving a rapid TGF-beta-independent fibrotic response	Tu097	Miguel Lopez-Unzu	Mechanisms of Myocardial Fibrosis
4090741	Urea cycle derived fumaric acid alleviates fibrosis via regulating	Tu098	Cheng Ni	Mechanisms of Myocardial Fibrosis

	mitochondrial ATP in fibroblast post myocardial infarction			
4096973	GDF11 accelerates NF-kB-mediated inflammation prior to reduction in cardiac fibrosis in response to experimental pressure overload.	Tu099	Laura BEN DRISS	Mechanisms of Myocardial Fibrosis
4097299	Multiscale Drug Screening for Cardiac Fibrosis Identifies MD2 as a Therapeutic Target	Tu100	Hao Zhang	Mechanisms of Myocardial Fibrosis
4098143	Measuring Fibrosis Progression in Duchenne Cardiomyopathy Using Cardiac Magnetic Resonance in mice	Tu101	India Hawkins	Mechanisms of Myocardial Fibrosis
4098165	The Role of the βIV-spectrin/STAT3 Complex in Regulating Ischemic Cardiac Remodeling	Tu102	Rebecca Shaheen	Mechanisms of Myocardial Fibrosis
4087266	SIRT2 Inhibition Decreases Glycolysis and Attenuates Hypertrophic Response in H9c2 Cardiomyocytes	Tu103	Ezra Ketema	Mitochondria and Metabolism
4087373	Mitochondrial Hydrogen Sulfide Regulates Skeletal Muscle Dysfunction and Exercise Intolerance in Cardiometabolic HFpEF	Tu104	Timothy Allerton	Mitochondria and Metabolism
4087631	Inhibition of Queuine tRNA-Ribosyltransferase 1 Ameliorates Heaptic Lipogenesis and Atherosclerosis	Tu105	Runda Wu	Mitochondria and Metabolism
4090226	Cardiomyocyte knockout of Ceramide Synthase 5 protects against metabolic cardiomyopathy and obesity in mice	Tu106	Anna Kovilakath	Mitochondria and Metabolism
4090753	Decreased Mitochondrial Protein Expression Accompanies Atrial Hypertrophy but Precedes Atrial Fibrillation Onset in a Mouse Model of Spontaneous Atrial Fibrillation	Tu107	Julie Rennison	Mitochondria and Metabolism
4091083	Improved Skeletal Muscle Metabolism and Exercise Capacity Following Hydrogen Sulfide Therapy in Cardiometabolic HFpEF	Tu108	Timothy Allerton	Mitochondria and Metabolism

4091196	Sirt1 inhibits the Sub1-induced RNA polymerase II recruitment to metabolic gene promoters during pressure overload	Tu109	Shinichi Oka	Mitochondria and Metabolism
4091206	CD36-Mediated Transendothelial Fatty Acid Transport Determines Cardiomyocyte Uptake and is Critical to Limiting a Lipotoxic Ceramide Profile and Supporting Cardiac Function during Pathological Stress.	Tu110	Azariyas A Challa	Mitochondria and Metabolism
4091541	Effect Of Grandmaternal Diabetes and High Fat Diet on Cardiometabolic Dysfunction in the Second Generation (F2) Newborns	Tu111	Prathapan Ayyappan	Mitochondria and Metabolism
4092024	The Outer Mitochondrial Membrane Protein Mtch2 Regulates Cardiac Metabolic Homeostasis and Body Mass	Tu112	Marisa Stachowski	Mitochondria and Metabolism
4092256	Metabolomic Profile of Human End-Stage Ischemic Cardiomyopathy Reveals Few Differences from Non-Ischemic Cardiomyopathy	Tu113	Sho Tanosaki	Mitochondria and Metabolism
4092337	Prostaglandin E2 Alters Mitochondrial Energy Metabolism in the Murine Heart	Tu114	Timothy D Bryson	Mitochondria and Metabolism
4092379	Molecular Mechanisms of an Increased Susceptibility to Arrhythmias in Cardiac Senescence	Tu115	Bartu Altiparmak	Mitochondria and Metabolism
4093129	Neurofibromin 2 regulates metabolic gene expression and cardiac responses to pressure overload stress	Tu116	Satvik Mareedu	Mitochondria and Metabolism
4093720	Unraveling the Role of Mitochondrial Ribosomal Protein L7/L12 (MRPL12) in Diabetic Cardiomyopathy	Tu117	Amit Kumar Rai	Mitochondria and Metabolism
4094321	The Mitochondrial LonP1 Is Indispensable For Cardiac Maturation And Function	Tu118	Sakthijothi Muthu	Mitochondria and Metabolism
4095165	The exocyst trafficking complex mediates fuel transporter membrane delivery in cardiomyocytes.	Tu119	Connor Schuller	Mitochondria and Metabolism

4097508	Sarm1 promotes diabetic cardiomyopathy by regulating HIF signaling, lipotoxicity and mitochondrial dysfunction	Tu120	Keaton Minor	Mitochondria and Metabolism
4097707	Investigating Mechanisms Of MCUB Inhibition Of Mitochondrial Calcium Uptake	Tu121	Neeraj Kumar Rai	Mitochondria and Metabolism
4097792	Induction of Mitochondrial and Endoplasmic Reticulum Stress in Early Response to High-Fat Diet-Induced Hyperglycemia in Mouse Hearts	Tu122	Subhankhi Pal	Mitochondria and Metabolism
4097835	Redox Biology of the Mitochondrial Protein mitoNEET and Ascorbate	Tu123	werner geldenhuys	Mitochondria and Metabolism
4098167	The Transcriptional Regulator FOG2S Represses GATA4-ERRα-PGC1α Complex to Decrease Mitochondrial Metabolism	Tu124	Sharavana Gurunathan	Mitochondria and Metabolism
4098239	Loss of mitochondrial magnesium leads to hepatic ketogenic insufficiency and accelerates the progression of cardiac hypertrophy	Tu125	Thiruvelselvan Ponnusamy	Mitochondria and Metabolism
4098320	Unveiling the Role of GRAF1 in Orchestrating Mitophagy and Metabolic Flexibility in Stressed Cardiomyocytes	Tu126	Qiang Zhu	Mitochondria and Metabolism
4088312	Very low-density lipoprotein receptor mediates triglyceride-rich lipoprotein induced oxidative stress and insulin resistance.	Tu127	Tahar Hajri	Myocardial Ischemia, Oxidative Stress, and Cardioprotection
4092406	p22phox is a critical factor for the prevention of oxidation and stabilization of SERCA2a in the heart.	Tu128	Allen Sam Titus	Myocardial Ischemia, Oxidative Stress, and Cardioprotection
4092422	Collagen Peptide modulates Enzymatic Activity post-Myocardial Infarction	Tu129	Ayodeji Augustine Olabiyi	Myocardial Ischemia, Oxidative Stress, and Cardioprotection

4092462	Intracellular Galectin-3 Interacts with Cytosolically Exposed Glycans to Promote the Injury of Cardiomyocytes Under Oxidative Stress	Tu130	Chiu-fen Yang	Myocardial Ischemia, Oxidative Stress, and Cardioprotection
4092657	Counteracting Cardiac Ischemia and Reperfusion Injury: the role of Sialidase Neu3	Tu131	Marco Piccoli	Myocardial Ischemia, Oxidative Stress, and Cardioprotection
4092854	Estrogen modulation of ethanol-evoked cardiac oxidative stress and dysfunction: Role of circadian clock period-2 and ferroptosis in estrogen deficient rats	Tu132	Syed Anees Ahmed	Myocardial Ischemia, Oxidative Stress, and Cardioprotection
4093126	Cardiac Adaptations and Mitochondrial Protection Through Long Noncoding RNAs Regulation in Mice on a Ketogenic Diet	Tu133	Narasimman Gurusamy	Myocardial Ischemia, Oxidative Stress, and Cardioprotection
4093261	Oncostatin M favors cardiomyocyte survival by promoting glycolysis	Tu134	Ruopu Li	Myocardial Ischemia, Oxidative Stress, and Cardioprotection
4093499	FYCO1 ameliorates cardiac remodeling in response to ischemia by amplifying autophagic flux	Tu135	Frauke Senger	Myocardial Ischemia, Oxidative Stress, and Cardioprotection
4093701	HIF-1α a novel therapeutic target to reduce Cardiac Ischemia Reperfusion Injury during AMI	Tu136	Lija Swain	Myocardial Ischemia, Oxidative Stress, and Cardioprotection

4093724	Reductive Stress Impedes Neonatal Cardiomyocyte Regeneration	Tu137	Ge Tao	Myocardial Ischemia, Oxidative Stress, and Cardioprotection
4094878	Tandem Mass Tagging (TMT)-based Identification of Proteome Signatures for Ischemia-Reperfusion Injury in Swine	Tu138	Sini Sunny	Myocardial Ischemia, Oxidative Stress, and Cardioprotection
4096563	Ferroptotic Cardiomyocytes Support Angiogenesis in the Infarcted Myocardium	Tu139	Rebecca Stairley	Myocardial Ischemia, Oxidative Stress, and Cardioprotection
4096867	Evaluation of the effects of mitoquinone on doxorubicin-induced acute cardiac damage	Tu140	Meagan Lyons	Myocardial Ischemia, Oxidative Stress, and Cardioprotection
4097428	Effect of Epicardial Application of Oxygenated Hydrogel on Scar Burden in a Rat Model of Myocardial Infarction	Tu141	Ghazal Sanadgol	Myocardial Ischemia, Oxidative Stress, and Cardioprotection
4097644	Pannexin-2 Deficiency Exacerbates Stress-induced Cell Injury in Cardiomyocytes	Tu142	Anusua Sarkar	Myocardial Ischemia, Oxidative Stress, and Cardioprotection
4098225	Hsp90β Facilitates Cell Death During Acute Cardiac Ischemia/Reperfusion Injury	Tu143	Richard Joseph Roberts	Myocardial Ischemia, Oxidative Stress, and Cardioprotection

4098275	DIAPH1 regulates stress induced senescence in Human cardiomyocytes	Tu144	Gautham Yepuri	Myocardial Ischemia, Oxidative Stress, and Cardioprotection
4098311	Exploring Naltrindole's hypercontracture attenuating effects during myocardial ischemia via a novel mechanism that produces cardioprotective effects in myocardial ischemia/reperfusion injury	Tu145	Cameron Stinson	Myocardial Ischemia, Oxidative Stress, and Cardioprotection
4098400	GJA1-20k Promotes Formation of Mitochondrial Actin Cages	Tu146	Vu Nguyen	Myocardial Ischemia, Oxidative Stress, and Cardioprotection
4097711	Serial measurement of circulating cardiovascular enriched miR-1 and -34a reflects the changes in cardiac function in patients with ischemic heart disease – a five year follow-up study	Tu147	Rajesh Katare	Clinical/Translational Research
4091632	cGAS-STING pathway promotes granulopoiesis and neutrophil differentiation in acute ischemia	Tu148	Dian J Cao	Cardio-immunology and Inflammation
4091265	FDA-Approved Antidepressant Trazodone Potentially Increases the Risk of Dyslipidemia	Tu149	Naara Ramirez	Signal Transduction Pathways

Wednesday, July 24, 2024, 4:30-7:00pm
Poster Session and Reception 3

Categories:

Cardiac Regeneration, Stem Cells and Tissue Engineering (Board # We001-We051)
Cardio-immunology and Inflammation (Board # We052-We079)
Cardiovascular Development – NEW (Board # We080-We092)
Cardiovascular Technologies and Therapeutics – NEW (Board # We093-We118)
Cell Death Mechanisms, Apoptosis, Necrosis and Autophagy (Board # We119-We125)
COVID 19 in the Cardiovascular System (Board # We126-We128)
RNA and Cellular Regulation (Board # We129-We130)

Systems Approach to Cardiovascular Biology (Board # We131-We135)
Transcriptional and Epigenetic Regulation of Gene Expression (Board # We136-146)
Sex-based Differences in Heart Disease (Board #We147)

Control #	Abstract Title	Poster Board #	Presenter	Category
4082556	Doxorubicin-Induced hiPSC Hormetic Model	We001	Rosy Joshi-Mukherjee	Cardiac Regeneration, Stem Cells and Tissue Engineering
4084171	A natural loss-of-function deletion of the cytohesin 1 (Cyth1) gene in BALB/cByJ mice does not impact cardiomyocyte polyploidy	We002	Ruolan Song	Cardiac Regeneration, Stem Cells and Tissue Engineering
4085207	Identification of CircRNA-miRNA-mRNA Regulatory Network and Crucial Signaling Pathways Related to Cardiomyocyte Proliferation in Neonatal Mice	We003	Ling Tang	Cardiac Regeneration, Stem Cells and Tissue Engineering
4087333	Epicardial Cells Facilitate Pacemaker Organoid Formation with SA Node-like Gene Expression	We004	Misato Koakutsu	Cardiac Regeneration, Stem Cells and Tissue Engineering
4088081	Metabolic Reprogramming to Increase Mitochodnrial Mass, Fusion and Energetics Represents an Important Rate Limiting Step in Direct Cardiac Reprogramming	We006	Brian Spurlock	Cardiac Regeneration, Stem Cells and Tissue Engineering
4088390	High Throughput 3D-Printed Human Engineered Heart Tissues for Cardiac Disease Modeling	We007	Miranda Juarros	Cardiac Regeneration, Stem Cells and Tissue Engineering
4088879	Hallmark Maturation of the Human Pluripotent Stem Cells-derived Cardiovascular Progenitors in Myocardial Infarcted Large Animal Model	We008	Lynn Yap	Cardiac Regeneration, Stem Cells and Tissue Engineering

4088888	Cardiac Fibroblast Autophagy Is Required for Neonatal Heart Regeneration	We009	Jie Feng	Cardiac Regeneration, Stem Cells and Tissue Engineering
4089340	In Vivo Partial Reprogramming of Cardiomyocytes to a Molecularly Rejuvenated State Ameliorates Cardiac Failure	We010	Irene De Lazaro	Cardiac Regeneration, Stem Cells and Tissue Engineering
4089888	The role of hsa-miR-9-5p in hypercontractility: insights from patients with hypertrophic cardiomyopathy	We011	Doris Adao	Cardiac Regeneration, Stem Cells and Tissue Engineering
4090280	Sheet like extracellular matrix secreting single cell microvesicles for reprogrammed endothelial cell therapy towards vascular regeneration	We012	Viola B Morris	Cardiac Regeneration, Stem Cells and Tissue Engineering
4090442	Modeling Sex and Stress using Induced Pluripotent Stem Cell Derived Cardiomyocytes	We013	Samuel Feinstein	Cardiac Regeneration, Stem Cells and Tissue Engineering
4090837	Creating Cell-specific Computational Models of Stem Cell-derived Cardiomyocytes Using Optical Experiments	We014	Janice Yang	Cardiac Regeneration, Stem Cells and Tissue Engineering
4090876	Modeling Cardiac Arrhythmogenicity of hiPSC-CMs and Cardiac Fibroblasts Nanopatterned Coculture and Machine Learning	We015	Huaxiao Adam Yang	Cardiac Regeneration, Stem Cells and Tissue Engineering
4090888	Generative Artificial Intelligence for hPSC-derived Cardiac Organoid Florescence Generation	We016	Huaxiao Adam Yang	Cardiac Regeneration, Stem Cells and Tissue Engineering

4090895	Tnni3k mediates postnatal reactive oxygen species through Prdx2 signaling to induce polyploidization in cardiomyocytes	We017	Baylee Westbury	Cardiac Regeneration, Stem Cells and Tissue Engineering
4091478	The Molecular Mechanism of Coronary Collateral Growth Induced by Repetitive Ischemia by Single Cell-RNA Sequencing	We018	Liya Yin	Cardiac Regeneration, Stem Cells and Tissue Engineering
4092160	YAP Overcomes Mechanical Barriers to Induce Adult Cardiomyocyte Division	We019	Yuka Morikawa	Cardiac Regeneration, Stem Cells and Tissue Engineering
4092350	Myh9 plays a vital role in cardiac myofibroblast differentiation and is indispensable for cardiac repair after myocardial infarction	We020	Leshan Wang	Cardiac Regeneration, Stem Cells and Tissue Engineering
4092596	Connexin 43 mediates macrophage induced cardiomyocyte proliferation and heart regeneration	We021	Yandong Li	Cardiac Regeneration, Stem Cells and Tissue Engineering
4093046	Depletion of Tip60 After Myocardial Infarction Induces Histone H2A.Z Deacetylation Followed by Cardiomyocyte Dedifferentiation/Cell-Cycle Activation	We022	Xinrui Wang	Cardiac Regeneration, Stem Cells and Tissue Engineering
4093070	P53 Activation Promotes Maturational Characteristics of Pluripotent Stem Cell-derived Cardiomyocytes in 3D Suspension Culture via FOXO-FOXM1 Regulation	We023	Nivedhitha Velayutham	Cardiac Regeneration, Stem Cells and Tissue Engineering
4093079	Spatial Transcriptomics Identifies a Regeneration-Permissive Microenvironment in the Neonatal Mammalian Heart	We024	Saradha Miriyala	Cardiac Regeneration, Stem Cells and Tissue Engineering

4093178	Human Engineered Heart Tissues Demonstrate Clinically-Relevant Disease indicators of Duchenne Muscular Dystrophy	We025	Shawn Luttrell	Cardiac Regeneration, Stem Cells and Tissue Engineering
4093435	Foxk1 and Foxk2 Promote Cardiomyocyte Proliferation and Heart Regeneration	We026	Dongcheng Cai	Cardiac Regeneration, Stem Cells and Tissue Engineering
4094533	Gut Microbiota Modulation by Immunosuppression and Cardiac Cell Therapy in a Nonhuman Primate Ischemia/Reperfusion Model of Cardiac Regeneration	We027	Patrick CH Hsieh	Cardiac Regeneration, Stem Cells and Tissue Engineering
4094955	Decoding m6a RNA methylomes identifies Igf2bp1 as a common barrier to direct reprogramming	We028	Yifang Xie	Cardiac Regeneration, Stem Cells and Tissue Engineering
4094977	Common and Divergent Cellular Etiologies Underlying Hypoplastic Left Heart Syndrome and Hypoplastic Right Heart Syndrome	We029	Yang Yu	Cardiac Regeneration, Stem Cells and Tissue Engineering
4095883	Microtubule Organizing Centers in Cardiomyocyte Proliferation and Maturation	We030	Chun Liu	Cardiac Regeneration, Stem Cells and Tissue Engineering
4095993	Optimizing Immunosuppressive Strategies for Enhanced Survival of Allogeneic Pluripotent Stem Cell-Derived Cardiomyocytes in Non-Human Primate Transplantation Model	We031	Shuji Chino	Cardiac Regeneration, Stem Cells and Tissue Engineering
4096446	FOXK1-Gli2 network regulates cardiomyocyte proliferation and heart regeneration	We032	Thijs Andrew Larson	Cardiac Regeneration, Stem Cells and Tissue Engineering

4097227	Heart-Specific Histone Methyltransferase SMYD1 Promotes Cardiac Maturation in the Direct Conversion of Human Fibroblasts into Cardiomyocytes.	We033	Anteneh Getachew Woldemariam	Cardiac Regeneration, Stem Cells and Tissue Engineering
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