ISHR CONGRESS BERLIN 2022 – SCIENTIFIC SESSIONS (Provisional) (V8 22-May LD)

New Mechanisms of Cardioprotection and Injury
New Insights into Cardiac Dysfunction
Ion Channel Mechanisms and Arrhythmias
Signalling in Cardiac Disease and Therapy
Emerging Concepts for Cardiac Regulation: Beyond the genome
Regenerative Medicine for Heart Disease
Cardiac Metabolism

ISHR-INTERNATIONAL SPONSORED SYMPOSIA

OTHER SPONSORED SYMPOSIA

Room:	MOA6-9	MOA12	MOA5	MOA1-3
Sun 12 June				
13:30	Research Achievement Award | **Douglas Lewandowski**			
14:45 TO 16:45	Targeting signalling pathways for cardiac rescue	New sarcomeric perspectives in cardiac remodeling	Injury and inflammation - understanding pathology pathways	
18:30	Keith Reimer Distinguished Lecture | **Barbara Casadei**			
Monday 13 June				
08:30	Peter Harris Distinguished Scientist Award | **Rodolphe Fischmeister**			
09:45 TO 11:45	Novel mechanisms for cardioprotection	Epigenetics, transcription & translation in cardiac dysfunction	Arrhythmogenic cellular etiologies	Chair's Symposium: German Center for CV Research (DZHK) 2022 Update
14:45 TO 16:45	JMCC Focus Topic Engineering the heart	Cardiac fuel and function	GPCR axes of cardiomyocyte signalling	
17:15	RJ Bing Young Investigator Award			
Tuesday 14 June				
08:15	Janice Pfeffer Distinguished Lecture | **Lea Delbridge**			
09:30 TO 11:30	Forging therapeutic development using engineered tissue	Cardiopathologies of aging and inflammation	Compartments and crosstalk in hypertrophy & failure	Chair's Symposium: The new 2022 CRC1470 - HFpEF
15:30 TO 17:30	JMCC CV implications of COVID19	Signalling regulation in cardiac metabolic stress	Atrial dysfunction and morphology - new insights into disease mechanisms	
Wednesday 15 June				
08:30	Outstanding Investigator Award | **Benjamin Prosser**			
09:45 TO 11:45	Multi-omics approaches to understand heart failure	Defining molecular defects in cardiac failure	New understanding of key myocardial signalling pathways	Chair's Symposium: Cardiac Splicing as a Therapeutic Target
12:15 TO 14:15	Optimising cell therapies and using cell model systems	Mito- and Glyco-metabolic pathologies	Channels and transporters in cardiac pathology	
16:00 TO 18:00	Mitchondrial ions, channels and transport in cardiac pathology	Sarcomeric disruption & dysfunction in the failing heart	Multifaceted RNA involvement in cardiopathology	
18:15	President's Distinguished Lecture | **Manuel Mayr**			

Berlin 2022 Symposia Plan *(Details subject to change)* **10 June**-2022 speaker updates LD

SUNDAY 12 JUNE 14:45 TO 16:45

New Mechanisms of Cardioprotection and Injury **Symposium Title:** Targeting signalling pathways for cardiac rescue		
Chair 1:	Richard Kitsis USA	
Chair 2:	Nina Kaludercic ITALY	
Time	*Presentation Titles*	**Speakers**
	Mechanisms of heart failure	Maria Kontaridis USA Masonic Medical Res Inst
	mTORC and necroptosis of cardiomyocytes	Tetsuji Miura JAPAN Sapporo Medical University
	The NO sibling nitroxyl (HNO) for treatment of heart failure	Rebecca Ritchie AUSTRALIA Monash University
	LOXL2 signalling in cardiac disease – more than a biomarker?	Sandrine LeCour SOUTH AFRICA University of Cape Town
	Stimulating protein kinase G to treat cardiac proteotoxicity	Mark Ranek USA Johns Hopkins University
	Abstract ID #234 *The Selenoprotein, VIMP, Exacerbates Cardiac Pathology by Selectively Impeding a Newly Defined Non-Canonical ERAD in the Heart*	Erik Blackwood USA Univ of Arizona College of Medicine

New Insights into Cardiac Dysfunction **Symposium Title: New sarcomeric perspectives in cardiac remodeling**		
Chair 1:	Livia Hool AUSTRALIA	
Chair 2:	Samantha Harris USA	
Time	*Presentation Titles*	**Speakers**
	Sarcomere mutation-specific effects in hypertrophic cardiomyopathy: basis for precision medicine?	Jolanda van der Velden NETHERLANDS Amsterdam UMC
	Targeting tubulin in hypertrophic cardiomyopathy	Lucie Carrier GERMANY University Medical Centre Hamburg-Eppendorf
	Mark4 regulation of microtubule detyrosination in ischemia	Xuan Li USA University of Cambridge
	Cardiac myosin binding protein-C interactions in hypertrophic cardiomyopathy	Sakthival Sadayappan USA University of Cincinnati
	Abstract 1D# 140 *Position-dependent effects of titin truncation on the heart*	Celine Santiago AUSTRALIA Victor Chang Cardiac Res Inst

Signaling in Cardiac Disease & Therapy **Symposium Title:** Injury and inflammation - understanding pathology pathways		
Chair 1:	Sean Davidson UK	
Chair 2:	Sarah Schumacher Bass USA	
Time	*Presentation Titles*	**Speakers**
	Conspiracy of Comorbidities: Meta-inflammation and HFpEF	Joseph Hill USA UT Southwestern Medical Centre
	Pathological role of NLRP3 inflammasome in the development of atrial fibrillation	Dobromir Dobrev GERMANY University Duisburg-Essen
	Targeting ERK-dimerization for cardioprotection in cancer treatment	Kristina Lorenz GERMANY University of Würzburg
	Fibroblast fate and collagen deposition in heart disease	Jennifer Davis USA University of Washington
	Abstract ID #25 *Phosphorylation of TSC2 Serine 1365 protects Mice against Heart Failure with Preserved Ejection Fraction*	Christian Oeing GERMANY Charite University Medicine

MONDAY 13 JUNE 09:45 TO 11:45

New Mechanisms of Cardioprotection and Injury **Symposium Title:** Novel mechanisms for cardioprotection		
Chair 1:	Philip Eaton UK	
Chair 2:	Kate Weeks AUSTRALIA	
Time	*Presentation Titles*	**Speakers**
	Nitric oxide in heart failure with preserved ejection fraction	David Lefer USA LSUHSC
	Circadian regulation of mitochondrial quality control mechanisms in the heart	Lorrie Kirshenbaum CANADA University of Manitoba
	Targeting mitochondrial ROS formation in cardiac disease	Nina Kaludercic ITALY Neuroscience Institute (CNR)
	RyR2 as a therapeutic target	Martin Vila Petroff ARGENTINA National University of La Plata
	Kinase signaling in cardiovascular health and disease	Friederike Cuello GERMANY Medical Center Hamburg-Eppendorf (UKE)
	Abstract #ID 123 *Investigating Sodium-Glucose Co-Transporters 1 (SGLT1) in Myocardium and its Role in Hyperglycaemia Ischaemia-Reperfusion Injury*	Alhanoof Almallki UK University College London

Emerging Concepts for Cardiac Regulation: Beyond the Genome **Symposium Title:** Epigenetic, transcription & translation in cardiac dysfunction		
Chair 1:	Maha Abdellatif USA	
Chair 2:	Mirko Volkers GERMANY	
Time	*Presentation Titles*	**Speakers**
	Control of cardiac growth and fibrosis by chromatin structural proteins	Thomas Vondriska USA University of California, Los Angeles
	RNA methylation at the center of muscle growth	Federica Accornero USA Ohio State University
	Epitranscriptomic regulations of the heart from mechanisms to therapeutics	Susmita Sahoo USA Icahn School of Medicine at Mt Sinai
	Epigenetic regulation of cardiac function in HFpEF	Markus Wallner AUSTRIA Medical University of Graz
	Mechanistic dissection of proteomic changes driving heart failure with preserved ejection fraction	Jennifer Van Eyk USA Cedars-Sinai
	Abstract #ID 214 *Ythdf2-mediated post-transcriptional control of gene expression regulates cardiac remodeling*	Vivien Kmietczyk GERMANY University Hospital Heidelberg

Ion Channel Mechanisms, Arrhythmias, Electrophysiology & Ca^{2+} Signaling **Symposium Title:** Arrhythmogenic cellular etiologies		
Chair 1:	Litsa Kranias USA	
Chair 2:	Andrew Trafford UK	
Time	*Presentation Titles*	**Speakers**
	The role of beta adrenergic stimulation in arrhythmia formation in hypertrophic cardiomyopathy	Livia Hool AUSTRALIA The University of Western Australia
	Origin of cellular arrhythmias	Bjorn Knollmann USA Vanderbilt University Sch of Med
	Nanostructural alteration in CPVT	Ana-Maria Gomez FRANCE INSERM
	CAMKII in cardiac arrhythmias: Hyperglycemia and O-GlcNAcylation	Don Bers USA University of California at Davis
	Biphasic regulation of RyR2 activity by calsequestrin-2:implications in Ca-mediated arrhythmias	Michelle Munro NEW ZEALAND University of Otago, Dunedin, NZ
	Abstract #ID 102 *Optogenetic manipulation of cardiac electrical dynamics using sub-threshold illumination: dissecting the role of cardiac alternans in terminating rapid rhythms*	Valentina Biasci ITALY University of Florence

MONDAY 13 JUNE 14:45 TO 16:45

JMCC Focus Topic: Engineering the Heart	
Michael Regnier Discussant Leader	
Presentation Titles	**Speakers**
How to repair a broken heart with pluripotent stem cell-derived cardiomyocytes	Thomas Eschenhagen GERMANY University Med Ctr Hamburg-Eppendorf
Computational modelling approaches to cAMP/PKA signaling in cardiomyocytes	Kimberly McCabe NORWAY Simula Research Laboratory
Direct coculture of human pluripotent stem cell-derived cardiac progenitor cells with epicardial cells induces cardiomyocyte proliferatoin and reduces sarcomere organization	Sean Palecek USA Univ of Wisconsin

Cardiac Metabolism **Symposium Title:** Cardiac fuel and function		
Chair 1:	Lea Delbridge AUSTRALIA	
Chair 2:	Erik Blackwood USA	
Time	*Presentation Titles*	**Speakers**
	Mitochondrial pyruvate uptake: a regulator of cardiac adaptation to stress	Dale Abel USA University of Iowa
	Lipid metabolites as dysregulated signalling molecules in the diabetic heart	Lisa Heather UK University of Oxford
	Increasing myocardial ketone oxidation as an approach to treat heart failure	Gary Lopaschuk CANADA University of Alberta
	Mitochondrial cAMP-CaMKII axis controls cardiac metabolic flexibility	Frank Lezoualc'h FRANCE INSERM University of Toulouse
	Abstract ID# 242 *Metabolic Perturbations in Hypertrophic Cardiomyopathy – Insights from Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes*	Chrishan Ramachandra SINGAPORE National Heart Res Inst Singapore

Signalling in Cardiac Disease & Therapy **Symposium Title:** GPCR axes of signalling		
Chair 1:	Friederike Cuello GERMANY	
Chair 2:	Elizabeth Murphy USA	
Time	*Presentation Titles*	**Speakers**
	cAMP nanodomain signalling: linking signalosomes to function	Manuela Zaccolo UK University of Oxford
	Novel aspects of GRK domains in cardiomyocytes	Sarah Schumacher Bass USA Cleveland Clinic
	Myeloid cell-specific β2-adrenergic receptor effects in the heart	Douglas Tilley USA Temple University
	Beta-adrenergic receptor signaling: evolving concepts and therapeutics	Howard Rockman USA Duke University Medical Center
	Abstract ID# 310 *Effects of AAV9-mediated cardiac phosphodiesterase 4B and 2A overexpression in a mouse model of heart failure with preserved ejection fraction*	Bernadin Ndongson NORWAY Oslo University Hospital

TUESDAY 14 JUNE 9:30 TO 11:30

Regenerative and Re-Engineering Approaches for Heart Disease **Symposium Title:** Forging therapeutic development using engineered tissue		
Chair 1:	Thomas Eschenhagen GERMANY	
Chair 2:	Jeff Molkentin USA	
Time	*Presentation Titles*	**Speakers**
	RNA therapeutics for cardiac gene editing and regeneration	Mauro Giacca UK King's College London
	Modelling cardiac fibrosis in engineered systems	Sara Nunes CANADA University of Toronto
	Translation of tissue engineered heart repair from bench to bedside	Wolfram Zimmermann GERMANY Göttingen University
	Mapping the molecular basis of cell differentiation from pluripotency	Nathan Palpant AUSTRALIA University of Queensland
	Abstract ID# 248 *MBNL1 controls cardiomyocyte differentiated versus proliferative cell state.*	Logan Bailey USA University of Washington

New Insights into Cardiac Dysfunction **Symposium Title:** Cardiopathologies of aging and inflammation		
Chair 1:	Asa Gustaffson USA	
Chair 2:	Fadi Charchar AUSTRALIA	
Time	*Presentation Titles*	**Speakers**
	Frailty sets the stage for ventricular dysfunction in naturally aging mice	Susan Howlett CANADA Dalhousie University
	The role of autophagy during cardiac aging	Junichi Sadoshima USA Rutgers Medical School
	Sterile inflammation in heart failure	Kinya Otsu UK King's College London
	Defining age and sex-specific differences in sarcomeric function	Kathleen Woulfe USA University of Colorado Anschutz
	Abstract ID# 224 *Chronic ischemic heart failure is defined by ongoing immune cell activation promoting inflammation and altered crosstalk with endothelial cells*	Maximillian Merten GERMANY Goethe University Frankfurt

Signaling in Cardiac Disease & Therapy **Symposium Title:** Compartments and crosstalk in hypertrophy & failure		
Chair 1:	Emma Robinson USA	
Chair 2:	Jim Bell AUSTRALIA	
Time	*Presentation Titles*	**Speakers**
	Increasing cardiac PDE activity: a therapeutic strategy in heart failure?	Grégoire Vandecasteele FRANCE INSERM
	Role of phosphatase activity in heart failure	Kate Weeks AUSTRALIA University of Melbourne
	Compartmentalized cGMP signaling in cardiac hypertrophy	Bischeslav O Nikolaev GERMANY Univ Med Ctr Hamburg-Eppendorf
	Microprotein regulation of cardiac function	Catherine Makarewich USA University of Cincinnati
	A lysine demyristoylase controls pathological fat-to-heart crosstalk	Timothy McKinsey USA University of Colorado
	Abstract ID# 264 *Crosstalk between cell-matrix and cell-cell signaling in cardiomyocyte mechanosensing*	Emelie Marhuenda UK Queen Mary Univ of London

TUESDAY 14 JUNE 15:30 TO 17:30

JMCC Highlights: Cardiovascular Implications of COVID19		
	Yibin Wang (Duke-NUS/Duke) – Discussant Lead SINGAPORE	
Time	*Presentation Titles*	**Speakers**
15:30	*Endothelial contribution to COVID-19: an update on mechanisms and therapeutic implications*	Kathy O Liu HONG KONG Chinese Univ of Hong Kong
15:50	*MicroRNAs targeting the SARS-CoV-2 entry receptor ACE2 in cardiomyocytes*	Thomas Thum GERMANY Hannover Medical Center
16:10	*Sex differences underlying pre-existing cardiovascular disease and cardiovascular injury in COVID-19*	Mansoureh Eghbali USA UCLA
16.30	*SARS-CoV2 effects on cardiovascular cells*	Stefanie Dimmeler GERMANY Univ of Frankfurt
	Short Talks:	
16:50	*Genes encoding ACE2, TMPRSS2 and related proteins mediating SARS-CoV-2 viral entry are upregulated with age in human cardiomyocytes*	Emma L Robinson USA Univ of Colorado
17:05	*Metabolic syndrome and hypertension impact on SARS-CoV-2 related genes in cardiac tissue – single cell dissection*	Chen Gao USA Univ of Cincinnati
17.15	*Therapeutic targets for LMNA dilated cardiomyopathy*	Jianming Jiang SINGAPORE National University of Singapore

Cardiac Metabolism **Symposium Title:** Signalling regulation in cardiac metabolic stress		
Chair 1:	Dale Abel USA	
Chair 2:	Lisa Heather UK	
Time	*Presentation Titles*	**Speakers**
	Cellular signaling of high glucose induced-cardiac arrhythmias	Julieta Palomeque ARGENTINA National University of La Plata
	Role of iron in cardiovascular disease	Hossein Ardehali USA Northwestern University
	The translational landscape of the human heart	Dr. Jorge Ruiz Orera GERMANY MDC
	Kruppel-like factor 5: Causing cardiomyopathy by impairing metabolic pathways	Konstantinos Drosatos USA Temple University
	Abstract ID# 250 *CaMKII regulates cardiac metabolic substrate switching during heart failure*	Alireza Saadatmand GERMANY University Hospital Heidelberg

Ion Channel Mechanisms, Arrhythmias, Electrophysiology & Ca^{2+} Signaling **Symposium Title:** Atrial dysfunction and morphology - new insights into disease mechanisms		
Chair 1:	Martin Vila Petroff ARGENTINA	
Chair 2:	Yow Keat Tham AUSTRALIA	
Time	*Presentation Titles*	**Speakers**
	The SR Ca-transport interactome in arrhythmogenic cardiomyopathy	Litsa Kranias USA Univ of Cincinnati
	Epicardial adipose tissue and atrial conduction abnormalities	James Bell AUSTRALIA Univ of Melbourne/La Trobe Univ
	Alternans and atrial fibrillation	Katharine Dibb UK University of Manchester
	Cyclic nucleotide turnover in sinoatrial node: role of phosphodiesterases	Delphine Mika FRANCE INSERM University Paris-Saclay
	Sodium channel biophysical properties and sodium channel blocker effectiveness in atria and ventricles	Davor Pavlovic UK University of Birmingham
	Abstract ID# 274 *IL-1β sensitizes mice to atrial fibrillation*	Oscar Moreno Loaiza BRAZIL Federal University

TUESDAY 14 JUNE 17:30 TO 18:30

JMCC WORKSHOP

Session Title: Promoting reproducibility in heart research *(an interactive audience participation event)*	
Chair 1:	Jolanda van der Velden (NETHERLANDS) Amsterdam University Medical Center
Chair 2:	Kate Weeks (AUSTRALIA) University of Melbourne, School Biomedical Sciences

Panelist	*Mini Presentation Titles*	**Panel member**	**Time allocated**	**Time start**
1	*Irreproducibility consequences & reproducibility incentives*	David Eisner (UK) University of Manchester	6 min	17.00
2	*Expectations and roles of funders and publishers driving change*	Karin Sipido (BELGIUM) KU Leuven	6 min	17.36
3	*Implementing reproducibility practices in institutions*	Julie McMullen (AUSTRALIA) Baker Heart & Diabetes Inst, Melbourne	6 min	17.42
4	*Reproducible data – the importance of presentation!*	Merry Lindsey (USA) Univ of Nebraska Med Ctr, Omaha	6 min	17.48
5	*Initiatives to promote reproducibility by the ISHR journals*	Rong Tian (USA) Washington U Seattle & Davor Pavlovic (UK) University of Birmingham, UK	6 min	17.54
	ALL SPEAKERS PANEL DISCUSSION	Audience participation & interaction	30min	18.00-18.30

WEDNESDAY 15 JUNE 09:45 TO 11:45

Emerging Concepts for Cardiac Regulation: Beyond the Genome **Symposium Title:** Multi-omics approaches to understand heart failure		
Chair 1:	Federica Accornero USA	
Chair 2:	Justus Stenzig GERMANY	
Time	*Presentation Titles*	**Speakers**
	Modulating epigenetics and gene expression in the heart by dietary fat and branched-chain amino acids	Maha Abdellatif USA Rutgers New Jersey Medical Ctr
	Regulation of translation for heart stress responses	Mirko Volkers GERMANY Heidelberg University
	Cardiac fibrosis – proteomics of the extracellular matrix in heart failure	Javier Barallobre-Barreiro UK King's College London
	Lipidomics insights into mitochondrial disorders & heart failure	Christine Des Rosiers CANADA Montreal Heart Institute
	Abstract ID# 61 *Machine learning-assisted integration of single cell transcriptomic data identifies potential cardiomyocyte maturation genes*	Jana-Charlotte Hegenbarth NETHERLANDS Maastricht University

New Insights into Cardiac Dysfunction **Symposium Title: Defining molecular defects in cardiac failure**		
Chair 1:	Jolanda van der Velden NETHERLANDS	
Chair 2:	Sakthival Sadayappan USA	
Time	*Presentation Titles*	**Speakers**
	Current state of HFpEF therapeutics	Burkert Pieske GERMANY Charite Universtiy Medicine Berlin
	Mechanisms of cardiac lipotoxicity and metabolic alterations in HFpEF	Gabriele Schiatarella GERMANY Charite University/MDC
	DNA damage causes heart failure	Issei Komuro JAPAN University of Tokyo
	Cardiac variants of uncertain significance and "missing pathogenicity"	Diane Fatkin AUSTRALIA Victor Chang Cardiac Res. Ins.
	Abstract ID# 124 *The RBM20 splicing target CAMK2D causes cardiac dysfunction in RBM20 cardiomyopathy*	Maarten van den Hoogenhof GERMANY DZHK Heidelberg/Mannheim

Signaling in Cardiac Disease & Therapy **Symposium Title:** New understanding of key myocardial signalling pathways		
Chair 1:	Manuela Zaccolo UK	
Chair 2:	Charles Steenbergen USA	
Time	*Presentation Titles*	**Speakers**
22	*Multiple facets of PI3Kinase signalling*	Emilio Hirsch ITALY University of Torino
22	*PI3K regulates atrial size, fibrosis and function*	Julie McMullen AUSTRALIA Baker Heart and Diabetes Institute
22	*Mitochondrial metabolites and cardiac ischemia-reperfusion injury*	Michael Murphy UK Medical Research Council
22	*Proton signalling and the monocarboxylate transporter interactions*	Stephan Lehnart GERMANY University of Goettingen
10	**Abstract ID# 118** *Characterization of early age-associated remodelling of cAMP-phosphodiesterases and β-adrenergic regulation of excitation-contraction coupling*	Maya Dia FRANCE INSERM
10	**Abstract ID# 103** *Rubicon-regulated β1 adrenergic receptor recycling protects the heart from pressure overload*	Tomakazu Murakawa JAPAN Osaka University

WEDNESDAY 15 JUNE 12:15 TO 14:15

Regenerative and Re-Engineering Approaches for Heart Disease **Symposium Title:** Optimising cell therapies and using cell model systems		
Chair 1:	Sara Nunes CANADA	
Chair 2:	Michael Gotthardt GERMANY	
Time	*Presentation Titles*	**Speakers**
	iPS-cultures to study genetic cardiomyopathy	Eva van Rooij NETHERLANDS Hubrecht Institute
	Mechanisms of therapeutic inflammation revealed from cardiac cell therapy	Ronald Vagnozzi USA University of Colorado Anschutz Medical Campus
	Stem-cell based heart repair – pharmacological perspective	Florian Weinberger GERMANY Univ Med Ctr Hamburg Eppendorf
	Where do we stand on cardiac stem cells and regeneration: Has all the dust settled?	Jeff Molkentin USA Cincinnati Children's Hospital
	Abstract ID# 40 *Protein prenylation regulates centrosomes & cardiomyocyte proliferation*	Christopher Batho AUSTRALIA QIMR Berghofer Medical Res Inst

Cardiac Metabolism **Symposium Title:** Mito- and Glyco- metabolic pathologies		
Chair 1:	Julieta Palomeque ARGENTINA	
Chair 2:	Lorrie Kirshenbaum CANADA	
Time	*Presentation Titles*	**Speakers**
	Connecting mitochondria with inflammation in cardiac injury	Rong Tian USA University of Washington
	Ageing stress & mitophagy protection	Asa Gustafsson USA UCSD
	O-GlcNAcylation and heart failure	Priya Umapathi USA Johns Hopkins University
	Metabo-epigenetic regulation of heart failure by HDAC4	Johannes Backs GERMANY University of Heidelberg
	Abstract ID# 28 *Disruption of sarcoplasmic reticulum-mitochondrial contacts underlies contractile dysfunction in experimental and human atrial fibrillation: a key role of mitofusin2*	Deli Zhang NETHERLANDS Amsterdam UMC

Ion Channel Mechanisms, Arrhythmias, Electrophysiology & Ca^{2+} Signaling **Symposium Title:** Channels and transporters in cardiac pathology		
Chair 1:	Bjorn Knollmann USA	
Chair 2:	Katherine Dibb UK	
Time	*Presentation Titles*	**Speakers**
	How does Ca^{2+} leak into myocytes?	David Eisner UK University of Manchester
	Polycystins and ion channels in heart dysfunction	Sergio Lavandero CHILE University of Chile
	Mitochondrial calcium regulation in cardiac function	Julia Liu USA University of Minnesota
	Functional recruitment of L-type calcium channels to T-tubules by Junctophilin-2.	Julia Gorelik UK Imperial College London
	Abstract ID# 199 *Unexpected Remodeling of Cardiac Nanostructure Exacerbates Proarrhythmic Late I-Na+ and Na^{+}/Ca^{2+} Mishandling in Mice Expressing the Arrhythmogenic Calmodulin Mutant D96V*	Heather Struckman USA The Ohio State University

WEDNESDAY 15 JUNE 16:00 TO 18:00

New Mechanisms of Cardioprotection and Injury **Symposium Title:** Mitchondrial ions, channels and transport in cardiac pathology		
Chair 1:	Alicia Mattiazzi ARGENTINA	
Chair 2:	Rebecca Ritchie AUSTRALIA	
Time	*Presentation Titles*	**Speakers**
	Novel regulatory mechanisms of mitochondrial calcium uptake	John Elrod USA Temple University
	Mitochondrial calcium and cell death pathways	Elizabeth Murphy USA NHLBI - NIH
	Mitochondrial ATP synthase in cardiac biology	Richard Kitsis USA Albert Einstein College of Medicine
	Mitochondrial Na and Ca handling	Christoph Maack GERMANY University Clinic Würzberg
	Heart failure – emerging roles for the mitochondrial pyruvate carrier	Philip Eaton UK Queen Mary University of London
	Abstract ID#256 *The role of cyclophilin D isomerase activity in regulating the mitochondrial permeability transition pore*	Georgios Amakakis USA NHLBI - NIH

New Insights into Cardiac Dysfunction **Symposium Title:** Sarcomeric disruption & dysfunction in the failing heart		
Chair 1:	Yoshihiko Saito JAPAN	
Chair 2:	Ben Prosser USA	
Time	*Presentation Titles*	**Speakers**
	Key pathomechanisms of truncating titin variants	Wolfgang A Linke GERMANY University of Muenster
	Sarcomere dysfunction in heart failure - A pathway to treatment	Samantha Harris USA University of Arizona
	Myosins, super relaxation and hypertrophic cardiomyopathy	Christopher Toepfer UK University of Oxford
	Titin post-translational modification regulates cardiomyocyte stiffness in heart failure	Michael Gotthardt GERMANY MDC
	Abstract ID# 192 *Investigating a novel role for nesprin-1 and the LINC complex in cardiomyocyte mechanotransduction*	Qiuping Zhang UK King's College London

Emerging Concepts for Cardiac Regulation: Beyond the Genome **Symposium Title:** Multifaceted RNA involvement in cardiopathology		
Chair 1:	Thomas Vondriska USA	
Chair 2:	Ronald Vagnozzi USA	
Time	*Presentation Titles*	**Speakers**
	ncRNAs-based therapeutic approaches in HF	Thomas Thum GERMANY Univ of Hannover
	Novel gene regulatory mechanisms in obesity-driven heart failure with preserved ejection fraction	Emma Robinson USA University of Colorado
	Myosin 7b is a regulatory long non-coding RNA	Leslie Leinwand USA University of Colorado at Boulder
	Circular RNA in the development of cardiac hypertrophy	Fadi Charchar AUSTRALIA Federation University
	Abstract ID# 183 *Aberrant intragenic transcription in heart failure pathogenesis*	Jiang Chang USA Texas A&M University