

ISHR
2016



ISHR XXII WORLD CONGRESS
International Society for Heart Research

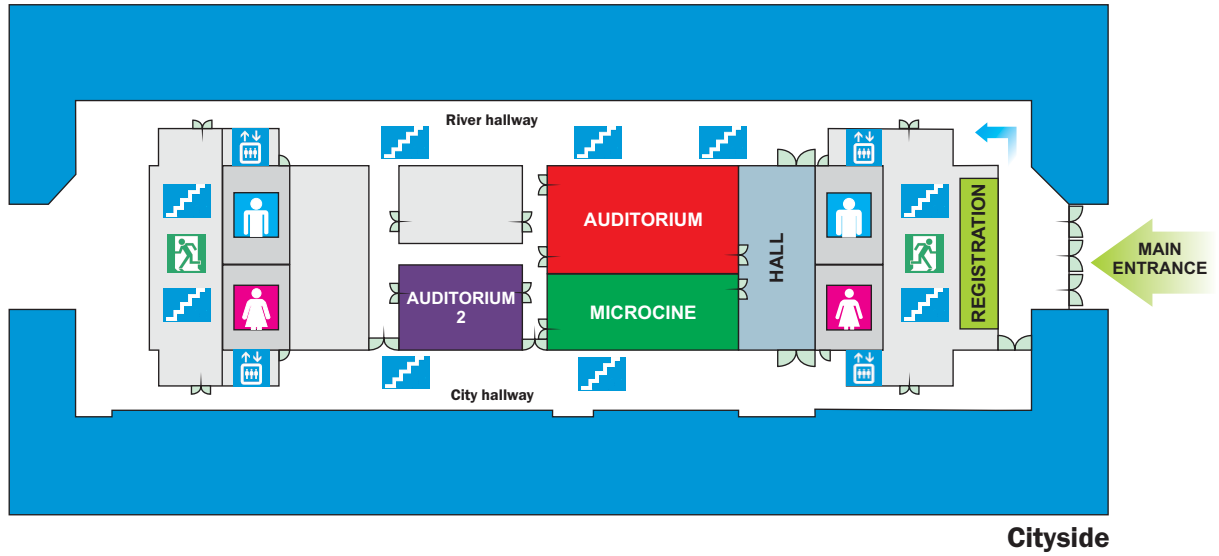


APRIL 18-21, 2016 • Buenos Aires - Argentina

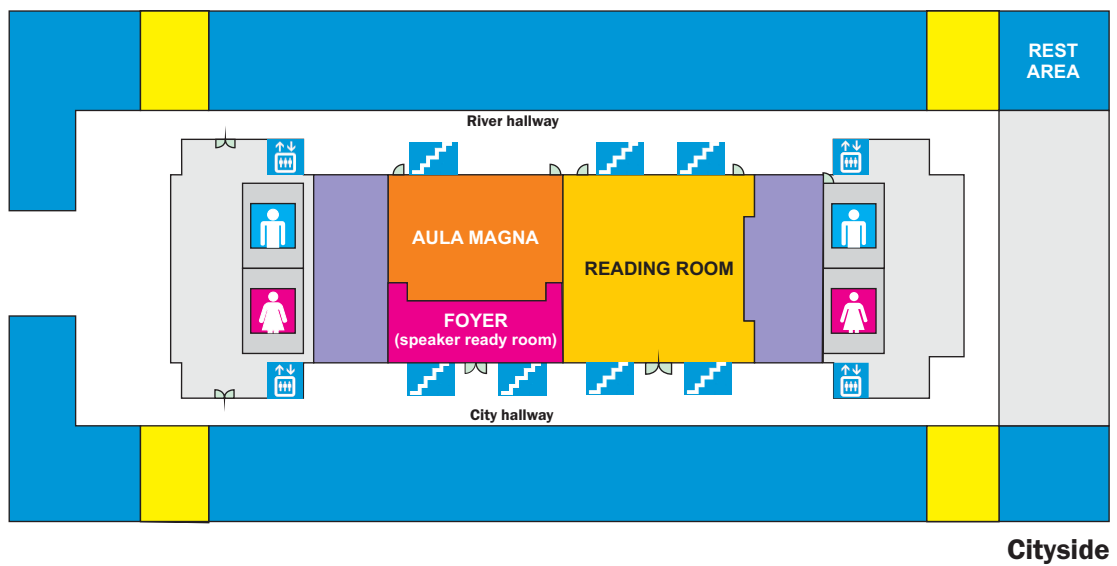
"Unraveling the mysteries of the heart at the rhythm of tango"

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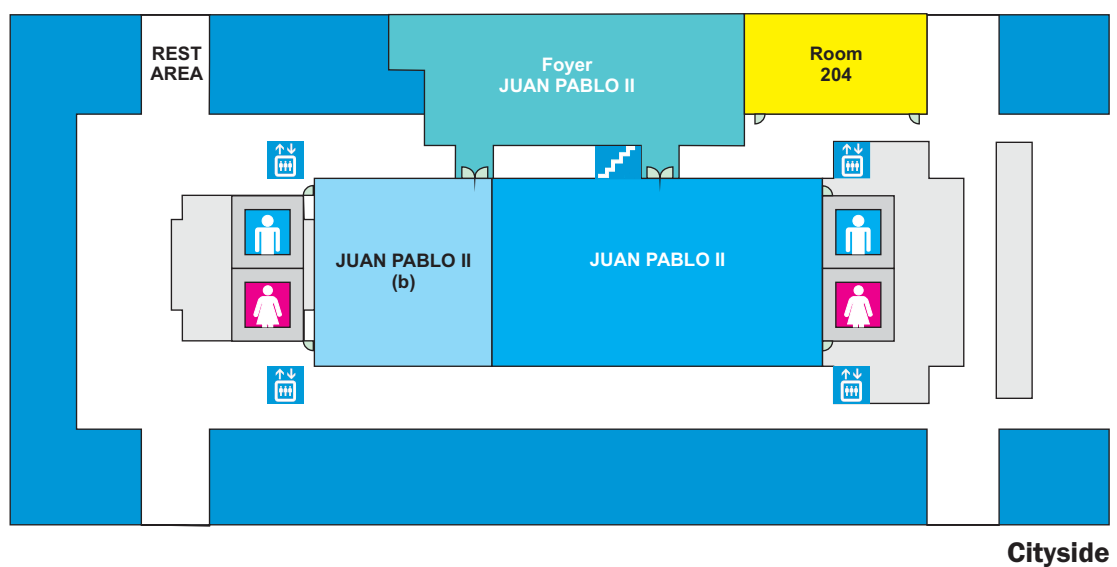
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FIRST FLOOR



SECOND FLOOR





Welcome to the

ISHR XXII WORLD CONGRESS

International Society for Heart Research

APRIL 18-21, 2016 • Buenos Aires - Argentina

ISHR XXII WORLD CONGRESS

Buenos Aires - Argentina



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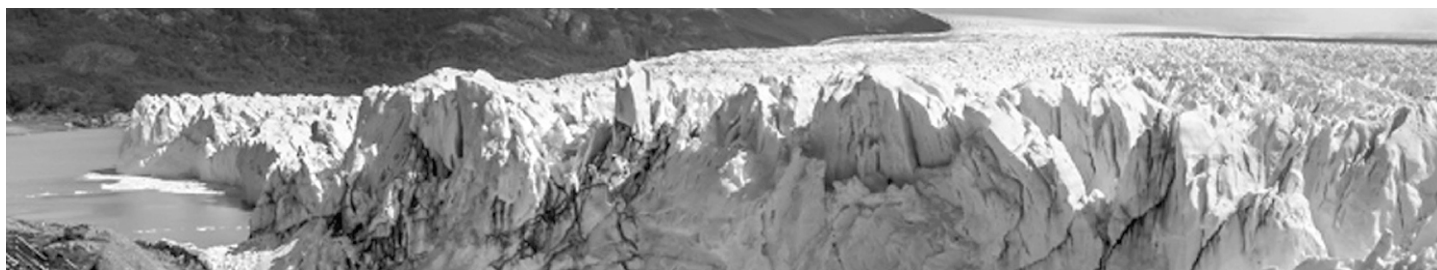
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IMPORTANT DATES & DEADLINES

September 28, 2015: Registration and Abstract Submission open

December 15, 2015: Abstract submission deadline to be considered for oral presentation

December 15, 2015: Deadline for Young Investigator Travel Awards

December 15, 2015: Deadline for Registration Grants

December 15, 2015: Deadline for Richard J Bing Award for Young Investigator applications

February 1, 2016: Early Registration Discount ends

March 1, 2016: Abstract submission ends

OPENING CEREMONY

Monday 18th 2:30 PM, Juan Pablo II Conference Room. Welcome address by the ISHR President and the Congress chair followed by the Keith Reimer Distinguished Lecture Award.

FISHR DINNER

Wednesday 20th 8 PM: ISHR Fellows, please join us for a relaxed get together at:

Estilo Campo, Alicia Moreau de Justo 1840, Buenos Aires. www.estilo-campo.com.ar

Meeting Point: Registration desk (ground floor) / 19:45 h.

ISHR GALA DINNER

Thursday 21st 9 PM: To close our congress with a flourish, please join us at the Gala Dinner at Piazzolla Tango Theatre for a typical Argentinean Tango Show (www.piazzollatango.com). Those who wish to learn some tango dancing skills can go to the theatre 1 hour in advance and take free tango lessons. Free transport from and to Piazzolla Tango will be provided. Buses will depart from Hotel Madero (Rosario Vera Peñaloza 360 Puerto Madero) at 7.30 PM. Tickets are available through the registration site and include a 3 course meal with wine followed by a professional tango show. Delegates and registered accompanying persons pay the discounted fee of US\$40. Each delegate can register to bring Guests for US\$100 each. Tickets are limited and will be available on a first come first serve basis.

PLENARY SESSIONS (Juan Pablo II Conference Room)

Nobel Laureate Lecture: Wednesday 20th April, 11:00 hs.

ROBERT J. LEFKOWITZ, Duke University, USA.

“Seven Transmembrane Receptors”.

Peter Harris Distinguished Scientist Award: Thursday 21st April, 15:00 hs.

DONALD M. BERS, UC-Davis, USA.

“Calmodulin and CaMKII in heart failure and arrhythmias”.

Research Achievement Award: Tuesday 19th April, 11:00 hs.

HEPING “PEACE” CHENG, Peking University, China.

“Protons trigger mitochondrial flashes for ATP homeostasis in the heart”.

Keith Reimer Distinguished Lecture Award: Monday 18th April, 15:00 hs.

RODOLPHE FISCHMEISTER, INSERM, France.

“Cyclic nucleotide microdomains and phosphodiesterases: Small sinks with smart drains can do a lot!”.

Janice Pfeffer Distinguished Lecture Award: Thursday 21st April, 12:00 hs.

EDWARD LAKATTA, NIA, NIH, USA.

“The heartbreak of aging viewed from the angiotensin II-remodeled arterial wall”.



President's Distinguished Lecture Award: Thursday 21st April, 8:30 hs.

THOMAS ESCHENHAGEN, University of Hamburg, Germany.
"Modelling heart disease in the dish - chances and challenges".

Outstanding Investigator Award: Monday 18th April, 18:15 hs.

JOHANNES BACKS, University of Heidelberg, Germany.
"Cardiac Epigenetics - From mechanisms to translation"

2016 ISHR Distinguished Leader Award: Wednesday 20th April, 11:00 hs.

SALVATORE PEPE, Murdoch Childrens Research Institute, Australia.

RICHARD J. BING YOUNG INVESTIGATOR AWARD

Juan Pablo II Conference Room, Tuesday 19th April, 13.30 hs.

Many thanks to members of the Bing Award Selection Committee who assisted with the initial review of applicants: Hossein Ardehali, Lea Delbridge, Federica del Monte, David Eisner, Thomas Eschenhagen, Rodolphe Fischmeister, Asa Gustafsson, Derek Hausenloy, Masatsugu Hori, Gary Lopaschuk, Yoshihiko Saito, Issei Komuro, Barbara McDermott, Toyooki Murohara, Salvatore Pepe, Mark Sussman, Thomas Thum, Jolanda van der Velden, Martín Vila Petroff.

Judging panel:

CHAIR: David Eisner

PANEL: Lea Delbridge, Tish Murphy, Rodolphe Fischmeister, Asa Gustafsson, Issei Komuro, Gary Lopaschuk, Jolanda van der Velden, Martín Vila Petroff.

Finalists 2016 (in alphabetical order)

Kiyotake Ishikawa

Cardiovascular Research Center, Icahn School of Medicine at Mount Sinai, New York, USA.

"Intratracheal gene delivery of SERCA2a ameliorates chronic pulmonary hypertension in a large animal preclinical model".

Victoria Mascetti

Dept of Surgery and British Heart Foundation Centre of Regenerative Medicine, University of Cambridge, Cambridge, UK.

"Human-mouse chimerism validates human stem cell pluripotency".

Gaetano Santulli

Wu Center for Molecular Cardiology, College of Physicians and Surgeons of Columbia University, New York, USA.

"Distinct roles of intracellular calcium release channels in cardiac and vascular remodeling".

Helena Viola

School of Anatomy, Physiology and Human Biology, The University of Western Australia, Perth, Australia.

"The role of the L-type Ca²⁺ channel in altered metabolic activity in a murine model of hypertrophic cardiomyopathy".

ISHR POSTER AWARDS

Poster Award Committee

CHAIRS: Hossein Ardehali, Livia Hool, Cecilia Mundiña-Weilenmann.

JUDGES: Paolo Bernardi, Donald Bers, Burns C. Blaxall, Joan Heller Brown, Fabio Di Lisa, Gerald Dorn, Roberta Gottlieb, Asa B. Gustafsson, Roger Hajjar, Steven Houser, Timothy J. Kamp, Richard Kitsis, Bjorn Knollmann, Walter Koch, David Lefer, Gary D. Lopaschuk, Tetsuji Miura, Brian O'Rourke, Jeffrey Robbins, Michael N. Sack, Junichi Sadoshima, Christian Schulze, Ajay Shah, Mark A. Sussman.



Martín Vila Petroff, PhD
Chair XXII World Congress of the ISHR



Dear colleagues,

On behalf of the Local Organizing Committee of the XXII World Congress of the ISHR and of the Latin American Section of the ISHR we are delighted to welcome you to Buenos Aires to participate in what we expect to be a memorable Congress at the wonderful location of Puerto Madero.

The International Scientific Program Committee together with the Local Scientific Program Committee have put together an exciting and provocative scientific program covering a range of topics with an integral perspective, with the aim of establishing a real syncytium between basic research and clinical practice and between cardiovascular health and disease. We believe that this approach will give our attendees the clues to where the future of our field is heading. This year's congress has a total of 33 symposia, each composed of 4 prestigious invited speakers and 1 short talk selected from the abstracts submitted by early career investigators. We will also have 6 Award Lectures given by exceptional scientist that have made outstanding contributions to our field. We are also delighted to announce that our Congress's main attraction will be the Nobel Laureate Lecture delivered by Dr. Robert Lefkowitz. Not less important is what we think in the future will be considered a hallmark of all ISHR meetings, that is, to have an early career investigator pre-congress meeting. These events, introduced successfully in San Diego 2013, are specifically designed to highlight the interests and professional needs of young investigators and to encourage their transit along the scientific path.

Another aspect of this congress which we hope will be outstanding is the programmed social activity. Buenos Aires has all the ingredients to fulfill this project, the city is vibrant with culture and attractions, the people are warm hearted and the weather in April is usually enjoyable. We have scheduled a Gala Dinner with Tango Show at the historic Güemes Gallery which is a must see while you're in Buenos Aires. We also encourage you to take advantage of the unique location of the Madero district which is walking distance from the typical neighborhood of San Telmo and only minutes away from the station where you can catch a ferry and sail the La Plata river delta. We also invite you to the Opening Cocktail which we are sure will be the perfect scenario to ensure the successful start of this congress.

Finally, we would like to specially thank Rick Moss, Tish Murphy and Metin Avkiran for their permanent advice and help during the planning and execution of the Congress. We also express our gratitude to Leslie Anderson Lobaugh, Constanza Morell and Asa Gustafsson for their exceptional work and tireless dedication to secure the success of this congress.

Please join us to share stimulating science and ISHR collegial atmosphere in an attempt to unravel together the mysteries of the heart at the rhythm of tango!!!

We look forward to being your hosts and giving you the "Buenos Aires Experience"

A handwritten signature in black ink, likely belonging to Martín Vila Petroff, PhD.



Metin Avkiran, PhD Dsc
President, ISHR



Dear colleagues,

As I have noted previously in the ISHR newsletter Heart News & Views, there is no shortage of associations, societies and scientific conferences with a cardiovascular focus (basic, clinical or both) and, indeed, many ISHR members also participate in the activities of other organizations. So what makes the ISHR unique and allows it to prosper, despite the challenges associated with being a federation of multiple regional sections spread across the world, with little direct subscription income and no full-time employees, in a sphere that is occupied by much wealthier, and perhaps more “professional”, organizations? I believe the answer lies in the nature and scope of our meetings, particularly our triennial World Congress.

The World Congress is undoubtedly the ISHR's premier event and is hosted by local organizers belonging to different ISHR sections, in keeping with the global and inclusive nature of our Society. Of course, what distinguishes the ISHR is not just the varied (and some might say exotic!) locations of its World Congress, but also the unique nature of each meeting, with strong cultural elements and local flavour (often literally) complementing outstanding science, in a relaxed and friendly environment. Remarkably, all this is achieved through the volunteer efforts of the local organizers, with support from the ISHR Officers and Council, who invariably put their hearts and souls into creating an event that is truly memorable for both the science and the setting.

With that preamble, it is my great pleasure to welcome you to the XXII ISHR World Congress in Buenos Aires, hosted by Martin Vila Petroff and colleagues from Centro de Investigaciones Cardiovasculares, La Plata. This dedicated team of loyal ISHR members have worked tirelessly on hosting the ISHR World Congress under the auspices of the Latin American Section for the very first time, and I have no doubt that the XXII World Congress will maintain the tradition of scientific excellence, cultural enrichment and outstanding hospitality that has been established by so many previous Congresses. Buenos Aires is often referred to as the “Paris of South America” for its architecture and rich heritage, and the city and its people are said to combine European sensibilities with Latin American passion – add to that heady mixture the enthusiasm and energy of Martin and his local organizing team and the outstanding quality of the program that has been put together by the International Scientific Program Committee under the chairmanship of Rick Moss, then I think we are assured of a wonderful few days ahead of us.

My sincerest thanks go to Martin and Rick and their teams, to Sarah Franklin and other members of the Early Career Investigator committee, to David Eisner and colleagues who have organized the Richard J Bing Young Investigator Award competition, to the members of the ISHR Executive Committee and especially Leslie Lobaugh, our Executive Secretary, for their tireless efforts, and finally to all ISHR members who have made key contributions, in particular through their participation as speakers, poster presenters/discussants and delegates. I wish everyone a hugely successful and enjoyable Congress.

Metin Avkiran



Richard L. Moss, PhD
Secretary General, ISHR



Welcome to the 2016 World Congress of the International Society for Heart Research!

The ISHR is among the leading societies internationally dedicated to understanding the basis for inherited and acquired diseases of the heart and vascular system, with the ultimate goal of improving clinical approaches to treatment and prevention of disease. This year's World Congress promises to report new advances in our understanding of determinants of cardiac health and disease. Nearly 170 speakers from our regional sections will make oral presentations addressing the primary themes of the meeting:

- Cardiac Regulation: Beyond the Genome
- Cardiac Metabolism
- Mechanisms and Therapeutic Targets for Arrhythmias
- New Insights into Cardiac Dysfunction
- Mechanisms of Cardioprotection and Injury
- Regenerative Medicine for Heart Diseases
- Signaling in Cardiac Disease
- Translation from Cardiac Research to Therapies

The Scientific Program Committee in collaboration with the Local Organizing Committee has drafted a schedule of 33 symposia that ensures that these themes are carried through the three days of the Congress. The scientific program notably features participation by investigators at early career stages: a half-day pre-Congress session involving oral presentations by Early Career Investigators, symposium presentations by faculty at ranks equivalent to assistant professor, and co-chairing of all the symposia that comprise the meeting. The schedule has been tailored to ensure that poster sessions occur during “prime time” each day. The outstanding poster from each of the three sessions selected by the judges will be recognized by a poster prize to the primary author.

On behalf of the ISHR, I extend deepest appreciation to the Scientific Program Committee and the Local Organizing Committee for their thoughtful and dedicated work in bringing this World Congress to fruition. I especially thank Martin Vila Petroff and Alejandro Aiello, Chair and Co-Chair of the Local Organizing Committee for their leadership in hosting this meeting in Buenos Aires and for their relentless pursuit of excellence in organizing the meeting. Dr. Carlos Valverde has also made essential contributions to final preparations for the meeting. The work involved in this undertaking is demanding and can at times be consuming, but through it all, Martin and Alex and their organizing committee have worked tirelessly to ensure that the World Congress is compelling and memorable.

To reap the full benefit of attending the World Congress, I encourage you to take part in the General Assembly and organized social activities as a means to learn more about the ISHR and to meet colleagues from around the globe.

On behalf of the organizing committees, I wish you a very successful meeting! Thank you for your commitment to the missions and programs of the ISHR.



"A mí se me hace cuento que empezó Buenos Aires, la juzgo tan eterna como el agua y como el aire (Hard to believe Buenos Aires had any beginning. I feel it to be as eternal as air and water)".

Jorge Luis Borges



Alejandro Aiello, PhD
Co-chair XXII World Congress of the ISHR



Dear colleagues,

I would like to give you a warm welcome to Buenos Aires. I am sure that you will find excellent science in this Congress, as usual in ISHR World Meetings; but I am also sure that you will find a beautiful and eclectic city to discover.

After a frustrated first foundation in 1536, Buenos Aires was definitely founded in 1580 by Don Juan de Garay, a Spanish conqueror that led his old galleons towards the muddy coast of a brown river, the world's widest river, "Río de la Plata". Don Juan decided to build the new city along the riverfront, close to where the presidential palace, "Casa Rosada" (pink house), is located today, one of the many must-see spots. "Casa Rosada" is located in front of "Plaza de Mayo" (May Square) and the Buenos Aires Cathedral, where Archbishop Jorge Bergoglio, now Pope Francis, delivered mass until appointed Head of the Catholic Church. A few blocks south of May Square you can go relic hunting in the colonial neighborhood of San Telmo.

Walking west from May Square, on Avenida de Mayo, try a coffee with medialunas in the historic Café Tortoni. Just keep walking up to the crossroad with 9 de Julio Avenue, to have a glimpse of the "Obelisco", another icon of this city. This monument is located at the crossroad of 9 de Julio and Corrientes Ave, famous for its theatres, pizza places and bookstores; the avenue that never sleeps! A few blocks from there you will find the Colón Theater, the Opera House, a magnificent palace.

The Congress venue, the UCA Convention Centre, is located in the district of Puerto Madero, a modern area of the city which harbors the latest architectural trends, the best restaurants and bars of Buenos Aires and is only a few blocks away from the Ecological Reserve, a big green area, ideal for an afternoon stroll to enjoy local flora and wild life or to do birdwatching in the very heart of the city!

Another interesting place to visit is the precious Recoleta cemetery, located in the ritzy Recoleta neighborhood, which is the resting place for many notable political figures and elites in Argentine history, including Evita Perón. If you want to catch the spirit of the immigrant's life by the turn of the 20th century and see the mythic birthplace of Tango, you must visit Caminito, in the neighborhood of "La Boca". And talking about Tango, the music that hallmarks Buenos Aires, please remember that on April 21st we will close the Congress with an evening Gala Dinner and tango show at historic Güemes Gallery. It is said you haven't been in Buenos Aires if you haven't seen a Tango Show, so we encourage you to reserve your tickets for this unique opportunity which will include transfer from the Convention Centre to Güemes Gallery, tango lessons, 3 course meal with wine and an exclusive tango show featuring the music of Astor Piazzola, the pioneer of modern Tango. His work revolutionized the traditional tango into a new style known as "nuevo tango" incorporating elements from jazz and classical music, exemplified by the well-known "Libertango", performed by Grace Jones in Roman Polanski movie "Frantic".

Welcome again to the ISHR World Meeting; you are formally invited to combine the passion for unveiling the secrets of the heart with the fun of discovering Buenos Aires, a South-American pearl that deserves to be enjoyed.

Cardiac Dysfunction**CANON SYMPOSIUM: CARDIAC HYPERTROPHY AND FAILURE (Symposium 4)**

Chair: Matt Hori, Osaka Medical Center for Cancer and Cardiovascular Diseases, Osaka, Japan.

Co-chair: Delaine Ceholski, Icahn School of Medicine at Mount Sinai, Manhattan, USA.

1. **Cardiac DNA damage causes heart failure.**
Issei Komuro, The University of Tokyo, Tokyo, Japan.
2. **Development of gene delivery tools targeting PI3K-regulated mRNAs and microRNAs to improve function of the failing heart.**
Julie McMullen, Baker IDI Heart and Diabetes Institute, Melbourne, Australia.
3. **Natriuretic Peptide System: Its role in heart failure, and acute myocardial infarction.**
Yoshihiko Saito, Nara Medical University, Nara, Japan.
4. **Exercise training in heart failure.**
Patricia Brum, University of Sao Paolo, Sao Paolo, Brazil.
5. **Oral Abstract: Modelling dilated cardiomyopathy-linked mutations in phospholamban using gene editing in IPS-derived cardiomyocytes.**
Delaine Ceholski, Mount Sinai Hospital, New York, USA.

NOVEL MECHANISMS IN CARDIOMYOPATHY (Symposium 8)

Chair: Richard L. Moss, University of Wisconsin, Madison, Madison, USA.

Co-chair: Sakthivel Sadayappan, Loyola University, Chicago, Illinois, USA.

1. **Autophagy-lysosomal pathway in inherited sarcomeric cardiomyopathies.**
Lucie Carrier, University Medical Center Hamburg-Eppendorf, Hamburg, Germany.
2. **Proteotoxicity: A common pathway in cardiac and neurodegenerative disease.**
Jeffrey Robbins, Cincinnati Children's Hospital Medical Center, Cincinnati, Ohio, USA.
3. **Proteotoxic signaling pathways.**
Marco Sandri, Venetian Institute of Molecular Medicine, Padova, Italy.
4. **Hypertrophic cardiomyopathy mutations expressed in iPSCs.**
J. Carter Ralphe, University of Wisconsin-Madison, Madison, USA.
5. **Oral Abstract: A pathogenic MYBPC3 25-bp polymorphic variant causes hypertrophic cardiomyopathy in South Asian descendants.**
Sakthivel Sadayappan, Loyola University - Chicago, Illinois, USA.

OXIDATIVE STRESS IN HEART FAILURE (Symposium 10)

Chair: Derek Laver, University of Newcastle, New South Wales, Australia.

Co-chair: Sarah Franklin, University of Utah, Salt Lake City, Utah, USA.

1. **NADPH oxidase isoforms in cardiac stress and failure.**
Ajay Shah, Cardiovascular Division, King's College, London, United Kingdom.
2. **Nitric Oxide and Oxidative Stress in Heart Failure.**
David Lefer, Louisiana State University, New Orleans, Louisiana, USA.
3. **Bioenergetic control of heart function.**
Pierre Domingues Dos Santos, Universite de Bordeaux, Bordeaux, France.
4. **Sources and Targets of Mitochondrial ROS in Heart Failure.**
Fabio Di Lisa, University of Padova, Padova, Italy.
5. **Oral Abstract: Role of miRNA-33a in Dilated Cardiomyopathy.**
Anupam Mittal, Jawaharlal Nehru University, New Delhi, India.

INHIBITING NODAL SIGNALING PATHWAYS AS NOVEL APPROACHES TO TREATING HEART FAILURE (Symposium 16)

Chair: John Solaro, University of Illinois, Illinois, USA.

Co-chair: Przemyslaw Gorski, Icahn School of Medicine at Mount Sinai, Manhattan, New York, USA.

1. **Targeting ERK signaling: a double-edged sword?.**
Kristina Lorenz, University of Würzburg, Germany.
2. **p38 MAPK from bench to bedside and back again.**
Michael Marber, King's College, London, United Kingdom.
3. **Inhibition of CaMKII and ROS in treating cardiomyocyte apoptosis and contractile dysfunction.**
Martín Vila Petroff, Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina.
4. **MMP2 regulation of post ischemic cardiac function.**
Huangtian Yang, Shanghai Institute for Biological Sciences, Shanghai, China.
5. **Oral Abstract: p300 mediated acetylation of SERCA2a diminishes its activity and contributes to cardiac dysfunction.**
Przemyslaw Gorski, Icahn School of Medicine at Mount Sinai, New York, USA.

MECHANISMS OF PROGRESSION OF HEART FAILURE (Symposium 24)**Chair:** Martin LeWinter, UVM Medical Center, Burlington, Vermont, USA.**Co-chair:** Carlos A. Valverde, Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina.

1. **Small molecule inhibition of fibrotic signaling for heart failure.**
Burns Blaxall, Cincinnati Children's, Cincinnati, Ohio, USA.
2. **Cardiomyopathy in the setting of muscle disease.**
Elizabeth McNally, Department of Medicine-Cardiology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, USA.
3. **DPP4 inhibitors and diabetic cardiomyopathy.**
Toyoaki Murohara, Nagoya University, Nagoya, Japan.
4. **Soluble epoxide hydrolase activation by S-nitrosation contributes to cardiac ischemia-reperfusion injury.**
Yi Zhu, Tianjin Medical University, Tianjin, China.
5. **Oral abstract: Lack of essential myosin light chain phosphorylation impairs cardiac ability to adapt to augmented physical demand.**
Selina Hein, Heidelberg University Hospital, Baden-Württemberg, Germany.

DIASTOLIC DYSFUNCTION - BASIC BIOLOGY AND CLINICAL IMPLICATIONS (Symposium 28)**Chair:** Rebecca Ritchie, Baker IDI Heart & Diabetes Inst, Melbourne, Australia.**Co-chair:** Nazha Hamdani, Institute of Physiology, Bochum, Germany.

1. **Cellular and molecular regulation of cardiac fibrotic remodeling.**
Jennifer Davis, Cincinnati Children's Hospital Medical Center, Cincinnati, Ohio, USA.
2. **Cardiac isoform expression - a personalized and systems approach to diastolic heart failure.**
Michael Gotthardt, Max-Delbrück-Center for Molecular Medicine, Berlin, Germany.
3. **Determinants of diastolic dysfunction in HFpEF.**
Martin LeWinter, UVM Medical Center, Burlington, Vermont, USA.
4. **Role of cMyBP-C in diastolic dysfunction.**
Sabine J. van Dijk, Institute for Cardiovascular Research, Amsterdam, Netherlands.
5. **Impact of cGMP-PKG pathway modulation on Titin phosphorylation and Titin-based myocardial passive stiffness.**
Nazha Hamdani, Institute of Physiology, Bochum, Germany.

Cardiac Metabolism**KAITO SYMPOSIUM: CARDIAC METABOLISM IN HEART FAILURE (Symposium 6)****Chair:** Lea Delbridge, University of Melbourne, Melbourne, Australia.**Co-chair:** Motoaki Sano, Keio University, Tokyo, Japan.

1. **What can magnetic resonance spectroscopy tell us about cardiac energy metabolism in heart failure?**
Andrew Murray, Cambridge, United Kingdom.
2. **Reciprocal signaling between cardiac sarcomeres and metabolism.**
John Solaro, University of Illinois, Illinois, USA.
3. **Lipid metabolism of the normal and failing human heart.**
Christian Schulze, Columbia University, New York, USA.
4. **Mechanisms of protein aggregation in heart failure.**
Federica Del Monte, Harvard Medical School, Boston, Massachusetts, USA.
5. **Oral Abstract: Metabolic remodeling of branched-chain amino acids promotes heart failure via mitochondrial suppression.**
Haipeng Sun, Shanghai, China.

NOVEL REGULATORY PATHWAYS OF CARDIAC METABOLISM (Symposium 17)**Chair:** E. Dale Abel, University of Iowa, Iowa, USA.**Co-chair:** Helena Viola, University of Western Australia, Crawley, Western Australia.

1. **KLF5: An underappreciated transcriptional regulator of cardiac and systemic metabolism.**
Konstantinos Drosatos, Temple University, Philadelphia, Pennsylvania, USA.
2. **Impact of dietary salt intake on cardiac remodeling.**
Jose Geraldo Mill, Federal University Espirito Santo, Vitoria, Brazil.
3. **Adipokines and cardiovascular disease.**
Noriyuki Ouchi, Nagoya University Graduate School of Medicine, Nagoya, Japan.
4. **Post-translational control of mitochondria and ER in cardiac and inflammatory disease.**
Michael Sack, Center for Molecular Medicine, Bethesda, Maryland, USA.
5. **Oral Abstract: Lowering the miR-181c Expression Protects the Heart from Obesity.**
Samarjit Das, Johns Hopkins, Baltimore, Maryland, USA.

CARDIAC ENERGETICS IN DIABETIC CARDIOMYOPATHY (Symposium 23)**Chair:** Andrew Murray, Cambridge, United Kingdom.**Co-chair:** Kimberly Mellor, Auckland Bioengineering Institute, Auckland, New Zealand.

1. **Novel targets of insulin signaling in the heart - links to heart failure.**
E. Dale Abel, University of Iowa, Iowa, USA.
2. **Glycophagy-a pathology of deranged cardiomyocyte glycogen handling in metabolic stress.**
Lea Delbridge, University of Melbourne, Melbourne, Australia.
3. **Diastolic dysfunction in diabetes mellitus.**
Rebecca Ritchie, Baker IDI Heart & Diabetes Institute, Melbourne, Australia.
4. **Metabolic syndrome and cardiovascular disease.**
Rui-Ping Xiao, Peking University, Beijing, China.
5. **Oral Abstract: SIRT2 contributes to the development of heart failure through a NRF2 dependent pathway.**
Hossein Ardehali, Northwestern University, Chicago, Illinois, USA.

METABOLIC INFLEXIBILITY IN HEART FAILURE (Symposium 27)**Chair:** Joan Heller Brown, University of California -San Diego, California, USA.**Co-chair:** Randi Parks, NIH, Bethesda, Maryland, USA.

1. **Metabolic and proteomic analysis of mitochondrial metabolism in heart failure.**
Daniel Kelly, Sanford Burnham Prebys Medical Discovery, Orlando, Florida, USA.
2. **Targeting cardiac energy metabolism as a therapy to treat heart failure.**
Gary D. Lopaschuk, University of Alberta, Alberta, Canada.
3. **Altered Dynamics of Protein and Amino Acid Metabolism in Failing Heart.**
Heinrich Taegtmeier, UTHealth Medical School, Houston, Texas, USA.
4. **Post-translational modification of mitochondrial function in heart failure.**
Rong Tian, University of Washington, Seattle, Washington, USA.
5. **Oral Abstract: Mice lacking the mitochondrial calcium uniporter have alterations in F1F0-ATP synthase.**
Randi Parks, NIH, Bethesda, Maryland, USA.

Cardiac Regulation: Beyond the Genome**EPIGENETICS OF HEART FAILURE (Symposium 2)****Chair:** Thomas Thum, Hannover Medical School, Hannover, Germany.**Co-chair:** Willem de Lange, University of Wisconsin, Madison, Wisconsin, USA.

1. **Interplay between histone modification marks and DNA methylation in controlling cardiac gene expression.**
Gianluigi Condorelli, Humanitas Research Hospital, Milan, Italy.
2. **Reversible Protein Acetylation in Heart Failure: Mechanism and Target.**
Joseph A. Hill, UT Southwestern Medical Center, Dallas, Texas, USA.
3. **Remodeling chromatin structure in cardiovascular disease.**
Thomas Vondriska, David Geffen School of Medicine, University of California-Los Angeles, Los Angeles, California, USA.
4. **Oral Abstract: Functional evaluation of the inhibition of upregulated microRNAs in afterload-enhanced engineered heart tissue.**
Mark Hirt, University of Hamburg-Eppendorf, Hamburg, Germany.
5. **Oral Abstract: Cardio fibroblasts regulate cardiomyocyte SUMOylation and contractility via miR-146a.**
Jae Gyun Oh, Icahn School of Medicine at Mount Sinai, New York, USA.

MODULATION OF TRANSCRIPTION IN CARDIOVASCULAR DEVELOPMENT AND DISEASE (Symposium 13)**Chair:** Joseph Hill, UT Southwestern Medical Center, Dallas, Texas, USA.**Co-chair:** Francine Marques, Baker IDI Heart and Diabetes Institute, Melbourne, Australia.

1. **LncRNAs regulating cardiac hypertrophy.**
Ching-Pin Chang, Indiana University, Indianapolis, Indiana, USA.
2. **Long noncoding RNAs in cardiac homeostasis and regeneration.**
Thierry Pedrazzini, Lausanne, Switzerland.
3. **LncRNAs as therapeutic targets in cardiac remodeling.**
Thomas Thum, Hannover Medical School, Hannover, Germany.
4. **Novel mechanisms in transcriptome reprogramming in heart failure.**
Yibin Wang, University of California-Los Angeles, Los Angeles, California, USA.
5. **Oral Abstract: Transcardiac gradient of cardio-micrnas in the failing heart.**
Francine Marques, Baker IDI Heart and Diabetes Institute, Melbourne, Australia.

INHERITED CARDIOMYOPATHIES: FROM MUTATION TO THERAPY (Symposium 25)**Chair:** Peter Ferdinandy, University of Szeged, Szeged, Hungary.**Co-chair:** Vanessa Lima, University of Sao Paulo, Sao Paulo, Brazil.

1. **Enzyme replacement therapy for cardiomyopathy in Barth Syndrome.**
Michael T. Chin, University of Washington, Seattle, Washington, USA.
2. **Gene therapy in heart failure.**
Roger J. Hajjar, Icahn School of Medicine at Mount Sinai, New York, USA.
3. **Mechanisms of sarcomeric dysfunction in HCM.**
Jolanda van der Velden, VU University Medical Center, Amsterdam, Netherlands.
4. **Therapies for inherited and acquired cardiomyopathies.**
Michael Regnier, University of Washington, Seattle, Washington, USA.
5. **Oral Abstract: Alda-1 improves cardiac function in the heart failure mice carrying human aldehyde dehydrogenase 2 E487K variant.**
Vanessa Lima, University of Sao Paulo, Sao Paulo, Brazil.

MECHANICAL FORCES AND CALCIUM MICRODOMAINS (Symposium 33)**Chair:** Xander Wehrens, Baylor College of Medicine, Houston, Texas, USA.**Co-chair:** Luis Gonano, Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina.

1. **Measuring calcium microdomains in the intact heart.**
Ariel Escobar, University of California, Merced, California, USA.
2. **Calcium transport in human atrial myocytes.**
Rosana Bassani, University of Campinas, São Paulo, Brazil.
3. **Intracellular calcium regulation by cardiac stretch.**
Gustavo Pérez, Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina.
4. **Calcium microdomains organized by junctophilins.**
Long Sheng Song, University of Iowa, Iowa City, Iowa, USA.
5. **Oral Abstract: Runx1 deficiency improves cardiomyocyte function post-myocardial infarction.**
Charlotte McCarroll, University of Glasgow, Glasgow, United Kingdom.

Cardioprotection and Injury**THE MITOCHONDRIAL CALCIUM MICRODOMAIN IN CARDIAC PATHOLOGY (Symposium 5)****Chair:** Jeffery Molkentin, UC Department of Pediatrics, Cincinnati, Ohio, USA.**Co-chair:** Stephan Lange, UC San Diego, San Diego, California, USA.

1. **Mitochondrial calcium exchange in heart failure - new genetic models.**
John Elrod, Temple University, Philadelphia, Pennsylvania, USA.
2. **The MCU in ischemia-reperfusion injury.**
Tish Murphy, NIH, Bethesda, Maryland, USA.
3. **Mitochondrial Ca regulating flight or fight response.**
Jeffery Molkentin, UC Department of Pediatrics, Cincinnati, Ohio, USA.
4. **Targeting mitochondria in cell death in heart disease.**
Richard Kitsis, Albert Einstein College of Medicine, Bronx, New York, USA.
5. **Oral Abstract: Postconditioning with mitochondria-targeting hydrogen sulfide donor Ap39.**
Qutuba Karwi, School of Pharmacy and Pharmaceutical Sciences, Cardiff, United Kingdom.

NOVEL MITOCHONDRIAL TARGETS FOR TREATING CARDIOVASCULAR DISEASE (Symposium 14)**Chair:** Heinrich Taegtmeyer, UT Health Medical School, Houston, Texas, USA.**Co-chair:** Catherine A. Makarewich, University of Texas Southwestern Medical Center, Texas, USA.

1. **Mitochondrial turnover and cardiac metabolic remodeling.**
Gerald Dorn, Washington University, St. Louis, Missouri, USA.
2. **Mitochondrial fission and fusion proteins as target for cardioprotection.**
Derek Hausenloy, Duke-NUS, Singapore.
3. **Keeping mitochondria in shape: a matter of life and death.**
Luca Scorrano, Venetian Institute of Molecular Medicine, Padova, Italy.
4. **Mitochondrial K channels as novel targets in heart failure.**
Brian O'Rourke, Johns Hopkins University School of Medicine, Baltimore, Maryland, USA.
5. **Oral Abstract: Sympathetic nervous response to ischemia-reperfusion injury in humans is reduced and delayed with remote limb ischemic preconditioning.**
Colleen Thomas, La Trobe University, Victoria, Australia.

ROLE OF MITOCHONDRIA IN CELL DEATH (Symposium 19)

Chair: Charles Steenbergen, Johns Hopkins School of Medicine, Baltimore, Maryland, USA.

Co-chair: Grzegorz Sawicki, University of Saskatchewan, Saskatoon, Canada.

1. **Role of F-ATP synthase in formation of the mitochondrial permeability transition pore.**
Paolo Bernardi, University of Padova, Padova, Italy.
2. **The mPTP and its regulatory kinases in cardioprotection.**
Tetsuji Miura, Sapporo Medical University, Sapporo, Japan.
3. **Mitochondrial protein S-nitrosylation in cardioprotection.**
Charles Steenbergen, Johns Hopkins School of Medicine, Baltimore, Maryland, USA.
4. **Calcium and CaMKII in ischemia/reperfusion injury.**
Carlos A. Valverde, Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina.
5. **Oral Abstract: Co-administration of subthreshold doses of inhibitors of MMP-2, MLCK and NOS activities protects heart from ischemia/reperfusion injury.**
Grzegorz Sawicki, University of Saskatchewan, Saskatoon, Canada.

REGULATION OF AUTOPHAGY AND CELL DEATH PATHWAYS IN HEALTH AND DISEASE (Symposium 29)

Chair: Lorrie Kirshenbaum, University of Manitoba, Winnipeg, Canada.

Co-chair: Hiroshi Akazawa, University of Tokyo, Tokyo, Japan.

1. **Mitophagy and biogenesis: paradoxical response to ischemia.**
Roberta Gottlieb, Cedars-Sinai Heart Institute, Los Angeles, California, USA.
2. **Importance of mitochondrial quality control in the myocardium.**
Asa Gustafsson, University of California-San Diego, California, USA.
3. **Interplay between autophagy, apoptosis and necrosis pathways.**
Lorrie Kirshenbaum, University of Manitoba, Winnipeg, Canada.
4. **Mitochondrial degradation and inflammation in failing hearts.**
Kinya Otsu, King's College, London, United Kingdom.
5. **Oral Abstract: Abnormal trafficking of connexin 43 on microtubules participates to the development of LMNA-related dilated cardiomyopathy.**
Coline Macquart, INSERM, Paris, France.

NOVEL MITOCHONDRIAL LOCALIZATION AND FUNCTION OF SIGNAL TRANSDUCERS (Symposium 30)

Chair: Peipei Ping, David Geffen School of Medicine, University of California-Los Angeles, Los Angeles, California, USA.

Co-chair: Eliana C. Martinez, University of Miami Miller School of Medicine, Miami, Florida, USA.

1. **Novel mitochondrial localization and function of signal transducers.**
Rainer Schulz, Justus Liebig University, Giessen, Germany.
2. **G proteins and mitochondrial function.**
Joan Heller Brown, University of California-San Diego, California, USA.
3. **The dynamic mitochondrial proteome.**
Peipei Ping, David Geffen School of Medicine, UCLA, Los Angeles, California, USA.
4. **Mitochondria Ca^{2+} and cAMP signaling.**
Tulio Pozzan, University of Padova, Padova, Italy.
5. **Oral Abstract: Targeting of muscle A-Kinase anchoring protein β -RSK3-complexes preserves cardiac structure and function following myocardial infarction.**
Eliana C. Martinez, University of Miami Miller School of Medicine, Miami, Florida, USA.

Ion Channels and Arrhythmias**MECHANISMS OF CALCIUM-INDUCED ARRHYTHMIAS (Symposium 3)**

Chair: Louisiana State University, New Orleans, Louisiana, USA.

Co-chair: James Bell, University of Melbourne, Melbourne, Australia.

1. **Ryanodine receptors in arrhythmia.**
Ana María Gomez, University of Paris, Châtenay-Malabry, France.
2. **Calmodulin Mutants and CPVT.**
Derek Laver, University of Newcastle, New South Wales, Australia.
3. **Role of RyR mediated calcium leak in disrupting cellular rhythms.**
Gaetano Santulli, Columbia University, New York, USA.
4. **Regulation and dysregulation of cardiac RyR's.**
Héctor Valdivia, University of Michigan, Ann Arbor, Michigan, USA.
5. **Oral Abstract: Cardiomyocyte high Ca^{2+} operational levels linked with arrhythmogenic vulnerability in a rat model of hypertrophic heart failure with preserved ejection fraction.**
James Bell, University of Melbourne, Victoria, Australia.

MACROMOLECULAR COMPLEXES, COMPARTMENTATION SIGNALING AND CARDIAC ARRHYTHMIA (Symposium 7)**Chair:** Héctor Valdivia, University of Michigan, Ann Arbor, Michigan, USA.**Co-chair:** Jérémy Fauconnier, INSERM, Montpellier, France.

1. **Engineering approaches to study channel structure function and nanodomains.**
Henry Colecraft, Columbia University, New York, USA.
2. **Scanning ion conductance microscopy to study microdomain-specific activation of cardiac ion channels.**
Julia Gorelik, Imperial College, London, United Kingdom.
3. **Alterations in intracellular Ca^{2+} handling as a basis for triggered arrhythmias.**
Burkert Pieske, Universitätsmedizin, Berlin, Germany.
4. **Models of ion channel microdomains and signaling dynamics.**
James Weiss, David Geffen School of Medicine, University of California-Los Angeles, Los Angeles, California, USA.
5. **Oral Abstract: Cyclophilin D inhibition alters sarcoplasmic reticulum –mitochondria calcium transfer and triggers ventricular arrhythmia.**
Jérémy Fauconnier, INSERM, Montpellier, France.

CALCIUM REGULATION: FROM PHYSIOLOGY TO CARDIOMYOPATHY (Symposium 20)**Chair:** Alejandro Aiello, Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina.**Co-chair:** Frederik Flenner, UKE, Hamburg, Germany.

1. **Regulation of diastolic calcium: basic mechanisms.**
David Eisner, University of Manchester, Manchester, United Kingdom.
2. **Targeting the alpha-interacting domain of the L-type calcium channel in prevention of cardiomyopathy.**
Livia Hool, The University of Western Australia, Crawley, Australia.
3. **Male-female differences in SR calcium regulation.**
Susan Howlett, Dalhousie University, Nova Scotia, Canada.
4. **X-ROS Signaling in heart: Stretch and calcium.**
W. Jon Lederer, University of Maryland, Baltimore, Maryland, USA.
5. **Occurrence of arrhythmias and electrophysiologic abnormalities in a mouse model of hypertrophic cardiomyopathy.**
Frederik Flenner, UKE, Hamburg, Germany.

NOVEL MECHANISMS AND THERAPEUTIC TARGETS FOR ARRHYTHMIAS (Symposium 32)**Chair:** Livia Hool, The University of Western Australia, Crawley, Australia.**Co-chair:** David Hassel, Heidelberg University Hospital, Heidelberg, Germany.

1. **Functional and structural atrial remodeling in disease.**
Katharine Dibb, Institute of Cardiovascular Sciences, Manchester, United Kingdom.
2. **Redox regulation of RyR2.**
Paulina Donoso, University of Chile, Santiago de Chile, Chile.
3. **Phospholamban in arrhythmogenic cardiomyopathy: A new surprise.**
Litsa Kranias, University of Cincinnati – College of Medicine, Cincinnati, Ohio, USA.
4. **T-tubule and ryanodine receptor microdomains in ischemic heart disease.**
Karin Sipido, Katholieke Universiteit – Leuven, Belgium.
5. **Oral Abstract: miR-19b Deficiency Impairs Cardiac Repolarization in Zebrafish.**
Alexander Benz, University Hospital, Heidelberg, Germany.

Regenerative Medicine**CARDIAC DAMAGE AND REPAIR (Symposium 1)****Chair:** Cecilia Mundiña-W, Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina.**Co-chair:** Zully Pedrozo, University of Chile, Santiago de Chile, Chile.

1. **Rescuing heart function by HIF1 Alpha-transfected stem cells.**
Alberto Crottogini, Favaloro University, Buenos Aires, Argentina.
2. **Cardiac repair and angiogenesis.**
Jose Krieger, University of São Paulo, São Paulo, Brazil.
3. **Molecular mechanisms of cardiac autophagy.**
Sergio Lavandero, Universidad de Chile, Santiago de Chile, Chile.
4. **Gene therapy for cardiac repair.**
Roger Hajjar, Icahn School of Medicine at Mount Sinai, New York, USA.
5. **Oral Abstract: Short telomeres induce autophagy and modulate cardiac progenitor Cell Fate.**
Nirmala Hariharan, University of California - Davis, California, USA.

REGENERATION - POSTNATAL VERSUS ADULT REPAIR (Symposium 12)

Chair: Tim Kamp, University of Wisconsin-Madison, Madison, Wisconsin, USA.

Co-chair: Mohsin Kahn, Lewis Katz School of Medicine, Temple University, Philadelphia, USA.

1. **miRNAs and proliferation in postnatal versus adult cardiomyocytes.**
Mauro Giacca, Int'l Centre for Genetic Engineering and Biotechnology, Trieste, Italy.
2. **Cardiac regeneration and rejuvenation by endogenous stem cells.**
Patrick Hsieh, Institute for Biomedical Sciences, Taipei, Taiwan.
3. **Molecular mechanisms of postnatal versus adult regeneration.**
Enzo Porrello, University of Queensland, Queensland, Australia.
4. **Clinical application of iPS cells for the treatment of severe congestive heart failure.**
Keiichi Fukuda, Keio University School of Medicine, Tokyo, Japan.
5. **Oral Abstract: Pluripotent stem cell microRNA-294 as a mediator of cardiac proliferative response in the heart after myocardial infarction.**
Mohsin Kahn, Lewis Katz School of Medicine, Temple University, Philadelphia, Pennsylvania, USA.

SIGNALING IN MYOCARDIAL REGENERATION (Symposium 21)

Chair: Steven Houser, Temple University, Philadelphia, Pennsylvania, USA.

1. **Lineage Reprogramming Fibroblasts to Induced Cardiac Progenitor Cells.**
Timothy Kamp, University of Wisconsin-Madison, Madison, Wisconsin, USA.
2. **Calcium handling of iPSC-derived cardiomyocytes - the good, the bad and the ugly.**
Bjorn Knollman, Vanderbilt University Medical Center, Nashville, Tennessee, USA.
3. **Adrenergic signaling in human induced pluripotent stem cell-derived cardiomyocytes.**
Sian Harding, Imperial College, London, United Kingdom.
4. **Oral Abstract: Bone marrow mesenchymal stem cells reprogrammed into cardiac progenitor cells by nano-protein transfection bio-unit.**
Xi-Yong Yu, Institute of Vascular Medicine, Beijing, China.

BAYER YAKUHIN SYMPOSIUM: MAKING CARDIAC REGENERATION HAPPEN - ROADBLOCKS TO OVERCOME (Symposium 22)

Chair: Keiichi Fukuda, Keio University School of Medicine, Tokyo, Japan

Co-chair: Megan Monsanto, San Diego State University, San Diego, California, USA.

1. **Stem cell therapy and post-infarction remodeling.**
Jianyi 'Jay' Zhang, University of Minnesota, Minneapolis, Minnesota, USA.
2. **Regulation of myocyte death and formation.**
Steven Houser, Temple University, Philadelphia, Pennsylvania, USA.
3. **Converting fibroblasts into cardiomyocytes.**
Masaki Ieda, Keio University School of Medicine, Tokyo, Japan.
4. **Ploidy: the genetic underpinning of regeneration.**
Mark Sussman, San Diego State University Heart Institute, San Diego, California, USA.
5. **Oral Abstract: CardioClusters: Harnessing the power of multi-lineage cardiac stem cells.**
Megan Monsanto, San Diego State University, San Diego, California, USA.

Signaling in Disease and Therapy**CHAGAS, A NOT SO NEGLECTED TROPICAL DISEASE (Symposium 9)**

Chair: Elena Lascano, Universidad Favaloro, Buenos Aires, Argentina.

Co-chair: Emiliano Medei, Federal University of Rio de Janeiro, Rio de Janeiro, Brazil.

1. **Functional and structural alterations of cardiac muscle mitochondria in Chagasic heart failure.**
Patricia Paglini-Oliva, National University of Córdoba, Córdoba, Argentina.
2. **Mechanisms underlying enhanced vulnerability to ventricular arrhythmias in chronic Chagasic patients.**
Emiliano Medei, Federal University of Rio de Janeiro, Rio de Janeiro, Brazil.
3. **Protective impact of Galectin-1 on cardiac myocyte damage induced by Trypanosoma cruzi.**
Karina Gómez, Instituto de Investigaciones en Ingeniería Genética y Biología Molecular, Bs As, Argentina.
4. **Nanomedicines for the treatment of Chagas disease.**
Eder Romero, Quilmes National University, Quilmes, Buenos Aires, Argentina.
5. **Oral Abstract: Thyroid stimulating hormone can directly modulate cardiac electrical activity.**
Maria Ruocco, Federal University of Rio de Janeiro, Rio de Janeiro, Brazil.

INTRACRINE SIGNALING IN THE HEART (Symposium 11)**Chair:** Laurence Brunton, University of Virginia, Charlottesville, Virginia, USA.**Co-chair:** Alessandra Ghigo, University of Torino, Torino, Italy.

1. **Redox regulation of protein kinase G in the cardiovascular system.**
Philip Eaton, The Rayne Institute, London, United Kingdom.
2. **Regulation of cardiac function by nuclear alpha-adrenergic receptors.**
Timothy O'Connell, University of Minnesota, Minneapolis, Minnesota, USA.
3. **The many splendid but complex actions of opioid peptides in the heart: regulators of cell differentiation, metabolism, adaptation and survival.**
Salvatore Pepe, Murdoch Childrens Research Institute, Melbourne, Australia.
4. **New insights into adrenergic regulation of cardiac fibrosis.**
You Yi Zhang, Institute of Vascular Medicine, Beijing, China.
5. **Oral Abstract: Inhibition of phosphoinositide 3-kinase γ promotes cardiac mitophagy and prevents anthracycline-related cardiomyopathy.**
Alessandra Ghigo, University of Torino, Torino, Italy.

HYPERTENSION AND HYPERTROPHY (Symposium 15)**Chairs:** Irene Ennis, Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina.**Co-chair:** Verónica De Giusti, Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina.

1. **The NHE-1 as a point of divergence in cardiac hypertrophy signaling.**
Irene Ennis, Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina.
2. **The role of Cardiac Thyrotropin Releasing Hormone (cTRH) in heart fibrosis and hypertrophy.**
Silvia García, Instituto de Investigaciones Médicas "A. Lanari", Buenos Aires, Argentina.
3. **Let's keep running... exercise, basic science and the knowledge gaps.**
Julie McMullen, Baker IDI Heart and Diabetes Institute, Melbourne, Australia.
4. **Protective axis of the renin-angiotensin system.**
Mariela Gironacci, Instituto de Química y Fisicoquímica Biológicas, Buenos Aires, Argentina.
5. **Oral Abstract: Phosphorylation of cofilin-1 by ERK1/2 signaling alters cardiac actin dynamics and causes LMNA-related dilated cardiomyopathy.**
Maria Chatzifrangkeskou, INSERM, Paris, France.

NEW MOLECULAR INSIGHTS OF GPCR SIGNALING IN THE HEART (Symposium 18)**Chair:** Hossein Ardehali, Northwestern University, Chicago, Illinois, USA.**Co-chair:** Simon Diering, University Medical Center - Hamburg, Hamburg, Germany.

1. **GRK2 actions on signaling in the heart.**
Walter Koch, Temple University School of Medicine, Philadelphia, Pennsylvania, USA.
2. **Post-translational modification of large sarcomeric proteins in adrenergic regulation of cardiac function.**
Henk Granzier, University of Arizona, Arizona, USA.
3. **New insights into β -arrestin-biased GPCR signaling.**
Howard Rockman, Duke University, Durham, North Carolina, USA.
4. **Ubiquitination of β ARs in β -arrestin mediated signaling.**
Sudha Shenoy, Duke University, Durham, North Carolina, USA
5. **Oral Abstract: Oxidative activation of cAMP-dependent protein kinase by nitroxyl modulates myofilament protein phosphorylation.**
Simon Diering, University Medical Center - Hamburg, Hamburg, Germany.

SIGNAL TERMINATION IN CARDIAC PHYSIOLOGY AND DISEASE (Symposium 26)**Chair:** Walter Koch, Temple University School of Medicine, Philadelphia, Pennsylvania, USA.**Co-chair:** Sudhiranjan Gupta, Texas A&M, Temple, Texas, USA.

1. **The flip side: neurohormonal regulation of cardiac phosphatases.**
Metin Avkiran, King's College London, London, United Kingdom.
2. **Lysine deacetylation: opposing roles for HDAC isoforms in hypertrophy?**
Timothy McKinsey, University of Colorado – Denver, Colorado, USA.
3. **Disulfide bond reduction: the many faces of thioredoxin-1.**
Junichi Sadoshima, Rutgers New Jersey Medical School, Newark, New Jersey, USA.
4. **Isoform-specific functions of phosphodiesterases.**
Manuela Zaccolo, University of Oxford, Oxford, United Kingdom.
5. **Oral Abstract: Inhibition of MicroRNA-130a prevents Angiotensin II-induced cardiac remodeling and improved cardiac function.**
Sudhiranjan Gupta, Texas A&M, Temple, Texas, USA.

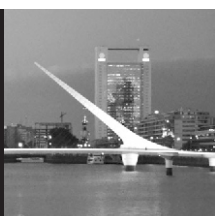
NEW INSIGHTS INTO THE ROLE OF CaMKII IN THE HEART (Symposium 31)

Chair: Johannes Backs, University of Heidelberg, Heidelberg, Germany.

Co-chair: Javier Duran, University of Chile, Santiago de Chile, Chile.

1. **Redox regulation of CaMKII and mitochondrial function.**
Mark E. Anderson, John Hopkins University, Maryland, USA.
2. **Pathways of CaMKII activation in the heart. Physiological and pathological consequences.**
Julieta Palomeque, Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina.
3. **The tango between PKA and CaMKII signaling in cardiac pacemaker.**
Yael Yaniv, Israel Institute of Technology, Haifa, Israel.
4. **Role of phospholamban ablation in CaMKII-induced arrhythmias and cardiac damage .**
Alicia Mattiazzi, Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina.
5. **Oral Abstract: Testosterone activates MEF2 through CaMKII and androgen receptor to induce cardiomyocyte hypertrophy.**
Javier Duran, University of Chile, Santiago de Chile, Chile.

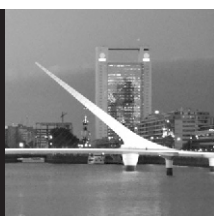
MONDAY
18th
april



PROGRAM BY DAY

TIME	ROOM & LOCATION	ACTIVITY
7.30	Registration desk Ground floor	ECI Registration opens.
8.00	Foyer Aula Magna 1° floor	Speaker ready room opens.
8.30 - 10.00	Juan Pablo II 2° floor	ECI Symposium 1. Chairs: Sarah Franklin, University of Utah, Salt Lake City, Utah, USA. Kimberley Mellor, Auckland Bioengineering Institute, Auckland, New Zealand.
8.30		TRPV2 REGULATES THE DEVELOPMENT OF MYOCYTE HYPERTROPHY. Rubinstein, Jack. University of Cincinnati, Cincinnati, Ohio, USA.
8.45		NORMALIZATION OF CARDIAC ENERGY METABOLISM AND LEFT VENTRICULAR HYPERTROPHY PRECEDE FUNCTIONAL RECOVERY IN THE REGRESSION OF HEART FAILURE. Byrne Nikole J. University of Alberta, Edmonton, Canada.
9.00		HAX-1 REGULATES CONTRACTILE RECOVERY AFTER ISCHEMIA/REPERFUSION INJURY BY PREVENTING SERCA2A DEGRADATION. Bydwell Philip. University of Cincinnati, Cincinnati, Ohio, USA.
9.15		PROTEOSEQ – A PROTEOTRANSCRIPTOMICS APPROACH TO DECODE ALTERNATIVE ISOFORM EXPRESSION IN CARDIAC HYPERTROPHY. Lam, Maggie PY. University of California, Los Angeles, California, USA.
9.30		MONOAMINE OXIDASES ARE MAJOR CONTRIBUTORS TO MITOCHONDRIAL ROS FORMATION AND DYSFUNCTION, AND CARDIAC DAMAGE IN DIABETIC CARDIOMYOPATHY. Deshwal, Soni. University of Padova, Padova, Italy.
9.45		ADP-STIMULATED CONTRACTION: A PREDICTOR OF THIN-FILAMENT ACTIVATION IN CARDIAC DISEASE. Sequeira, Vasco. VU University Medical center, Amsterdam, The Netherlands.
10.00	Foyer Juan Pablo II 2° floor	Coffee break.
10.00	Auditorium 2 Ground floor	International Council Meeting I.
10.20- 11.50	Juan Pablo II 2° floor	ECI Symposium 2. Chairs: Stephan Lange, University of California-San Diego, San Diego, California, USA. Carlos A. Valverde, Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina.
10.20		FOLIC ACID REDUCES DOXORUBICIN-INDUCED CARDIOMYOPATHY BY MODULATING ENDOTHELIAL NITRIC OXIDE SYNTHASE. Octavia, Yanti. Erasmus MC, Rotterdam, The Netherlands.
10.35		ENDOGENOUS ANNEXIN-A1 IS CARDIOPROTECTIVE AGAINST MYOCARDIAL INFARCTION IN MICE IN VIVO. Qin, ChengXue. Baker IDI Heart and Diabetes Institute, Melbourne, Australia.
10.50		IDENTIFICATION OF A HIGH AFFINITY, HIGH EFFICACY ADENOSINE A _{2B} RECEPTOR AGONIST WITH POTENT ANTI-FIBROTIC ACTIVITY. Vecchio, Elizabeth. Monash University, St Kilda East, Australia.
11.05		PROLIFERATIVE AND HYPERTROPHIC DEFECTS CONTRIBUTES TO LMNA ASSOCIATED DILATED CARDIOMYOPATHY. Onoue, Kenji. Nara Medical University, Kashihara, Japan.
11.20		POLYCYSTIN-1 REGULATES L-TYPE CALCIUM CHANNEL STABILIZATION DURING MECHANICAL STRETCH IN CARDIOMYOCYTES. Pedrozo, Zully. Facultad de Medicina, Universidad de Chile, Santiago de Chile, Chile.
11.35		ENDOTHELIAL ATP-BINDING CASSETTE G1 IN MOUSE ENDOTHELIUM PROTECTS AGAINST HEMODYNAMIC-INDUCED ATHEROSCLEROSIS. He, Jinlong. Tianjin Medical University, Tianjin, China.

MONDAY
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PROGRAM BY DAY

TIME	ROOM & LOCATION	ACTIVITY
11.50	Foyer Juan Pablo II 2° floor	Coffee break.
12.00	Registration desk Ground floor	World Congress registration opens.
12.10- 13.00	Aula Magna 1° floor	Workshop Panel: “Publishing: A Career Development Panel” Chair: Helena Viola, University of Western Australia, Perth, Australia. Co-chair: Sakthivel Sadayappan, Loyola University, Chicago, Illinois, USA. David Eisner (Editor in Chief of JMCC). Joseph Hill (incoming Editor in Chief of Circulation). Howard Rockman (Editor in Chief of JCI). Karin Sipido (Editor in Chief of Cardiovascular Research). Rui-Ping Xiao (Associate Editor of the New England Journal of Medicine).
13.00	Foyer Juan Pablo II 2° floor	Lunch & networking with ECI and the ISHR International council.
14.30	Juan Pablo II 2° floor	Opening Ceremony.
15.00		Keith Reimer Distinguished Lecture: Chair: David Eisner, University of Manchester, Manchester, United Kingdom. Rodolphe Fischmeister, INSERM, Châtenay-Malabry Cedex, France. “Cyclic nucleotide microdomains and phosphodiesterases: Small sinks with smart drains can do a lot!”.
16.00	Auditorium Ground floor	Symp. 1: Cardiac damage and repair Chair: Cecilia Mundiña-Weilenmann, Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina. Co-chair: Zully Pedrozo, University of Chile, Santiago de Chile, Chile.
16.00		1. RESCUING HEART FUNCTION BY HIF1 ALPHA-TRANSFECTED STEM CELLS. Alberto Crottogini, Favaloro University, Buenos Aires, Argentina.
16.25		2. CARDIAC REPAIR AND ANGIOGENESIS. Jose Krieger, University of São Paulo, São Paulo, Brazil.
16.50		3. MOLECULAR MECHANISMS OF CARDIAC AUTOPHAGY. Sergio Lavandero, Universidad de Chile, Santiago de Chile, Chile.
17.15		4. GENE THERAPY FOR CARDIAC REPAIR. Roger Hajjar, Icahn School of Medicine at Mount Sinai, New York, USA.
17.40		5. ORAL ABSTRACT: SHORT TELOMERES INDUCE AUTOPHAGY AND MODULATE CARDIAC PROGENITOR CELL FATE. Nirmala Hariharan, University of California - Davis, Davis, California, USA.
16.00	Microcine Ground floor	Symp. 2: Epigenetics of heart failure Chair: Thomas Thum, Hannover Medical School, Hannover, Germany. Co-chair: Willem de Lange, University of Wisconsin, Madison, Wisconsin, USA.
16.00		1. INTERPLAY BETWEEN HISTONE MODIFICATION MARKS AND DNA METHYLATION IN CONTROLLING CARDIAC GENE EXPRESSION. Gianluigi Condorelli, Humanitas Research Hospital, Milan, Italy.
16.25		2. REVERSIBLE PROTEIN ACETYLATION IN HEART FAILURE: MECHANISM AND TARGET. Joseph A. Hill, UT Southwestern Medical Center, Dallas, Texas, USA.
16.50		3. REMODELING CHROMATIN STRUCTURE IN CARDIOVASCULAR DISEASE. Thomas Vondriska, David Geffen School of Medicine, UCLA, Los Angeles, California, USA.
17.15		4. ORAL ABSTRACT: FUNCTIONAL EVALUATION OF THE INHIBITION OF UPREGULATED microRNAs IN AFTERLOAD-ENHANCED ENGINEERED HEART TISSUE. Mark Hirt, University of Hamburg-Eppendorf, Germany.

TIME	ROOM & LOCATION	ACTIVITY
17.40		5. ORAL ABSTRACT: CARDIO FIBROBLASTS REGULATE CARDIOMYOCYTE SUMOYLATION AND CONTRACTILITY VIA miR-146a. Jae Gyun Oh, Icahn School of Medicine at Mount Sinai, Manhattan, New York, USA.
16.00	Aula Magna 1° floor	Symp. 3: Mechanisms of calcium leak-induced arrhythmias. Chairs: David Lefer, Louisiana State University, Louisiana, USA. Co-chair: James Bell, University of Melbourne, Melbourne, Australia.
16.00		1. RYANODINE RECEPTORS IN ARRHYTHMIA. Ana María Gómez, University of Paris, Châtenay-Malabry, France.
16.25		2. CALMODULIN MUTANTS AND CPVT. Derek Laver, University of Newcastle, New South Wales, Australia.
16.50		3. ROLE OF RYR MEDIATED CALCIUM LEAK IN DISRUPTING CELLULAR RHYTHMS. Gaetano Santulli, Columbia University, New York, USA.
17.15		4. REGULATION AND DYSREGULATION OF CARDIAC RYR'S. Héctor Valdivia, University of Michigan, Ann Arbor, Michigan, USA.
17.40		5. ORAL ABSTRACT: CARDIOMYOCYTE HIGH Ca^{2+} OPERATIONAL LEVELS LINKED WITH ARRHYTHMOGENIC VULNERABILITY IN A RAT MODEL OF HYPERTROPHIC HEART FAILURE WITH PRESERVED EJECTION FRACTION. James Bell, University of Melbourne, Melbourne, Australia.
16.00	Room 204 2° floor	Symp. 4: CANON SYMPOSIUM: Cardiac hypertrophy and failure. Chair: Matt Hori, Osaka Medical Center for Cancer and Cardiovascular Diseases, Osaka, Japan. Co-chair: Delaine Ceholski, Icahn School of Medicine at Mount Sinai, Manhattan, New York, USA.
16.00		1. CARDIAC DNA DAMAGE CAUSES HEART FAILURE. Issei Komuro, The University of Tokyo, Tokyo, Japan.
16.25		2. DEVELOPMENT OF GENE DELIVERY TOOLS TARGETING PI3K-REGULATED MRNAS AND MICRORNAS TO IMPROVE FUNCTION OF THE FAILING HEART. Julie McMullen, Baker IDI Heart and Diabetes Institute, Melbourne, Australia.
16.50		3. NATRIURETIC PEPTIDE SYSTEM: ITS ROLE IN HEART FAILURE, AND ACUTE MYOCARDIAL INFARCTION. Yoshihiko Saito, Nara Medical University, Nara, Japan.
17.15		4. EXERCISE TRAINING IN HEART FAILURE. Patricia Brum, University of Sao Paulo, Sao Paulo, Brazil.
17.40		5. ORAL ABSTRACT: MODELLING DILATED CARDIOMYOPATHY-LINKED MUTATIONS IN PHOSPHOLAMBAN USING GENE EDITING IN IPS-DERIVED CARDIOMYOCYTES. Delaine Ceholski, Icahn School of Medicine at Mount Sinai, Manhattan, New York, USA.
18.15	Juan Pablo II 2° floor	Outstanding Investigator Award: Chair: Metin Avkiran, King's College London, London, United Kingdom. Johannes Backs, University of Heidelberg, Heidelberg, Germany. "Cardiac Epigenetics - From mechanisms to translation".

TUESDAY
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PROGRAM BY DAY

TIME	ROOM & LOCATION	ACTIVITY
8.00	Registration desk Ground floor	Registration
8.30	Juan Pablo II 2 ^o floor	Symp. 5: The mitochondrial calcium domain in cardiac pathology Chair: Jeffery Molkentin, UC Department of Pediatrics, Cincinnati, Ohio, USA. Co-chair: Stephan Lange, UC-San Diego, San Diego, California, USA.
8.30		1. MITOCHONDRIAL CALCIUM EXCHANGE IN HEART FAILURE - NEW GENETIC MODELS. John Elrod, Temple, University, Philadelphia, Pennsylvania, USA.
8.55		2. THE MCU IN ISCHEMIA-REPERFUSION INJURY. Tish Murphy, NIH, Bethesda, Maryland, USA.
9.20		3. MITOCHONDRIAL CA REGULATING FLIGHT OR FIGHT RESPONSE. Jeffery Molkentin, UC Department of Pediatrics, Cincinnati, Ohio, USA.
9.45		4. TARGETING MITOCHONDRIA IN CELL DEATH IN HEART DISEASE. Richard Kitsis, Albert Einstein College of Medicine, Bronx, New York, USA.
10.10		5. ORAL ABSTRACT: POSTCONDITIONING WITH MITOCHONDRIA-TARGETING HYDROGEN SULFIDE DONOR AP39. Qutuba Karwi, School of Pharmacy and Pharmaceutical Sciences, Cardiff, United Kingdom.
8.30	Auditorium Ground floor	Symp. 6: KAITO SYMPOSIUM: Cardiac metabolism in heart failure Chair: Lea Delbridge, University of Melbourne, Melbourne, Australia. Co-chair: Motoaki Sano, Keio University, Japan.
8.30		1. WHAT CAN MAGNETIC RESONANCE SPECTROSCOPY TELL US ABOUT CARDIAC ENERGY METABOLISM IN HEART FAILURE? Andrew Murray, Cambridge, United Kingdom.
8.55		2. RECIPROCAL SIGNALING BETWEEN CARDIAC SARCOMERES AND METABOLISM. John Solaro, University of Illinois, Illinois, USA.
9.20		3. LIPID METABOLISM OF THE NORMAL AND FAILING HUMAN HEART. Christian Schulze, Columbia University, New York, USA.
9.45		4. MECHANISMS OF PROTEIN AGGREGATION IN HEART FAILURE. Federica Del Monte, Beth Israel Deaconess Medical Centre-Harvard, Boston, Massachusetts, USA.
10.10		5. ORAL ABSTRACT: METABOLIC REMODELING OF BRANCHED-CHAIN AMINO ACIDS PROMOTES HEART FAILURE VIA MITOCHONDRIAL SUPPRESSION. Haipeng Sun, Shanghai, China.
8.30	Microcine Ground floor	Symp. 7: Macromolecular complexes, compartmentation signaling and cardiac arrhythmia. Chair: Héctor Valdivia, University of Michigan, Ann Arbor, Michigan, USA. Co-chair: Jérémy Fauconnier, INSERM, Montpellier, France.
8.30		1. ENGINEERING APPROACHES TO STUDY CHANNEL STRUCTURE FUNCTION AND NANODOMAINS. Henry Colecraft, Columbia University, New York, USA.
8.55		2. SCANNING ION CONDUCTANCE MICROSCOPY TO STUDY MICRODOMAIN-SPECIFIC ACTIVATION OF CARDIAC ION CHANNELS. Julia Gorelik, Imperial College London, London, United Kingdom.
9.20		3. ALTERATIONS IN INTRACELLULAR Ca²⁺ HANDLING AS A BASIS FOR TRIGGERED ARRHYTHMIAS. Burkert Pieske, Medical University of Graz, Graz, Austria.
9.45		4. MODELS OF ION CHANNEL MICRODOMAINS AND SIGNALING DYNAMICS. James Weiss, David Geffen School of Medicine, University of California-Los Angeles, Los Angeles, California, USA.

TIME	ROOM & LOCATION	ACTIVITY
10.10		5. ORAL ABSTRACT: CYCLOPHILIN D INHIBITION ALTERS SARCOPLASMIC RETICULUM - MITOCHONDRIA CALCIUM TRANSFER AND TRIGGERS VENTRICULAR ARRHYTHMIA. Jérémy Fauconnier, INSERM, Montpellier, France.
8.30	Aula Magna 1° floor	Symp. 8: Novel mechanisms in cardiomyopathy Chair: Richard L. Moss, University of Wisconsin – Madison, USA. Co-chair: Sakthivel Sadayappan, Loyola University - Chicago, Illinois, USA.
8.30		1. AUTOPHAGY-LYSOSOMAL PATHWAY IN INHERITED SARCOMERIC CARDIO MYOPATHIES. Lucie Carrier, University Medical Center Hamburg-Eppendorf, Hamburg, Germany.
8.55		2. PROTEOTOXICITY: A COMMON PATHWAY IN CARDIAC AND NEURODEGENERATIVE DISEASE. Jeffrey Robbins, Cincinnati Children's Hospital Medical Center, Cincinnati, Ohio, USA.
9.20		3. PROTEOTOXIC SIGNALING PATHWAYS. Marco Sandri, Venetian Institute of Molecular Medicine, Padova, Italy.
9.45		4. HYPERTROPHIC CARDIOMYOPATHY MUTATIONS EXPRESSED IN IPSCS. J. Carter Ralphe, University of Wisconsin-Madison, Madison, Wisconsin, USA.
10.10		5. ORAL ABSTRACT: A PATHOGENIC MYBPC3 25-BP POLYMORPHIC VARIANT CAUSES HYPERTROPHIC CARDIOMYOPATHY IN SOUTH ASIAN DESCENDANTS. Sakthivel Sadayappan, Loyola University - Chicago, Illinois, USA.
8.30	Room 204 2° floor	Symp. 9: Chagas, a not so neglected tropical disease Chair: Elena Lascano, Universidad Favaloro, Buenos Aires, Argentina. Co-chair: Emiliano Medei, Federal University of Rio de Janeiro, Rio de Janeiro, Brazil.
8.30		1. FUNCTIONAL AND STRUCTURAL ALTERATIONS OF CARDIAC MUSCLE MITOCHONDRIA IN CHAGASIC HEART FAILURE. Patricia Paglini-Oliva, National University of Córdoba, Córdoba, Argentina.
8.55		2. MECHANISMS UNDERLYING ENHANCED VULNERABILITY TO VENTRICULAR ARRHYTHMIAS IN CHRONIC CHAGASIC PATIENTS. Emiliano Medei, Federal University of Rio de Janeiro, Rio de Janeiro, Brazil.
9.20		3. PROTECTIVE IMPACT OF GALECTIN-1 ON CARDIAC MYOCYTE DAMAGE INDUCED BY TRYPANOSOMA CRUZI. Karina Gómez, Instituto de Investigaciones en Ingeniería Genética y Biología Molecular, Buenos Aires, Argentina.
9.45		4. NANOMEDICINES FOR THE TREATMENT OF CHAGAS DISEASE. Eder Romero, Quilmes National University, Quilmes, Argentina.
10.10		5. ORAL ABSTRACT: THYROID STIMULATING HORMONE CAN DIRECTLY MODULATE CARDIAC ELECTRICAL ACTIVITY. Maria Ruocco, Federal University of Rio de Janeiro, Rio de Janeiro, Brazil.
10.30	Foyer Juan Pablo II 2° floor	Coffee break.
11.00	Juan Pablo II 2° floor	Research Achievement Award: Chair: Asa Gustafsson, University of California-San Diego, California, USA. Heping "Peace" Cheng, Peking University, Peking, China. "Protons trigger mitochondrial flashes for ATP homeostasis in the heart".
12.00	Juan Pablo IIB (2° floor) and Reading Room (1° floor)	Poster sessions & Lunch.
13.30	Juan Pablo II 2° floor	Richard J Bing Young Investigator Award: Finalist competition. Chair: David Eisner, University of Manchester, United Kingdom.

TUESDAY
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april

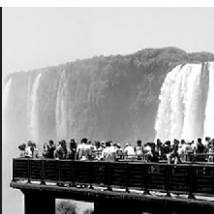


PROGRAM BY DAY

TIME	ROOM & LOCATION	ACTIVITY
15.00	Auditorium Ground floor	Symp. 10: Oxidative stress in heart failure Chair: Derek Laver, University of Newcastle, New South Wales, Australia. Co-chair: Sarah Franklin, University of Utah, Salt Lake City, Utah, USA.
15.00		1. NADPH OXIDASE ISOFORMS IN CARDIAC STRESS AND FAILURE. Ajay Shah, BHF Chair of Cardiology, King's College Hospital, London, United Kingdom.
15.25		2. NITRIC OXIDE AND OXIDATIVE STRESS IN HEART FAILURE. David Lefer, Louisiana State University, New Orleans, Louisiana, USA.
15.50		3. BIOENERGETIC CONTROL OF HEART FUNCTION. Pierre Domingues Dos Santos, Universite de Bordeaux, Bordeaux, France.
16.15		4. SOURCES AND TARGETS OF MITOCHONDRIAL ROS IN HEART FAILURE. Fabio Di Lisa, University of Padova, Italy.
16.40		5. ROLE OF miRNA-33a IN DILATED CARDIOMYOPATHY. Anupam Mittal, Jawaharlal Nehru University, New Delhi, India.
15.00	Microcine Ground floor	Symp. 11: Intracrine signaling in the heart Chair: Laurence Brunton, University of Virginia, Charlottesville, Virginia, USA. Co-chair: Alessandra Ghigo, University of Torino, Torino, Italy.
15.00		1. REDOX REGULATION OF PROTEIN KINASE G IN THE CARDIOVASCULAR SYSTEM. Philip Eaton, The Rayne Institute, London, United Kingdom.
15.25		2. REGULATION OF CARDIAC FUNCTION BY NUCLEAR ALPHA-ADRENERGIC RECEPTORS. Timothy O'Connell, University of Minnesota, Minneapolis, Minnesota, USA.
15.50		3. THE MANY SPLENDID BUT COMPLEX ACTIONS OF OPIOID PEPTIDES IN THE HEART: REGULATORS OF CELL DIFFERENTIATION, METABOLISM, ADAPTATION AND SURVIVAL. Salvatore Pepe, Murdoch Childrens Research Institute, Melbourne, Australia.
16.15		4. NEW INSIGHTS INTO ADRENERGIC REGULATION OF CARDIAC FIBROSIS. You Yi Zhang, Institute of Vascular Medicine, Beijing, China.
16.40		5. ORAL ABSTRACT: INHIBITION OF PHOSPHOINOSITIDE 3-KINASE PROMOTES CARDIAC MITOPHAGY AND PREVENTS ANTHRACYCLINE-RELATED CARDIOMYOPATHY. Alessandra Ghigo, University of Torino, Torino, Italy.
15.00	Aula Magna 1° floor	Symp. 12: Regeneration-postnatal versus adult repair Chair: Tim Kamp, University of Wisconsin-Madison, Madison, Wisconsin, USA. Co-chair: Mohsin Kahn, Lewis Katz School of Medicine, Temple University, Philadelphia, USA.
15.00		1. miRNAs AND PROLIFERATION IN POSTNATAL VERSUS ADULT CARDIOMYOCYTES. Mauro Giacca, International Center for Genetic Engineering and Biotechnology, Trieste, Italy.
15.25		2. CARDIAC REGENERATION AND REJUVENATION BY ENDOGENOUS STEM CELLS. Patrick Hsieh, Institute for Biomedical Sciences, Taipei, Taiwan.
15.50		3. MOLECULAR MECHANISMS OF POSTNATAL VERSUS ADULT REGENERATION. Enzo Porrello, University of Queensland, Queensland, Australia.
16.15		4. CLINICAL APPLICATION OF IPS CELLS FOR THE TREATMENT OF SEVERE CONGESTIVE HEART FAILURE. Keiichi Fukuda, Keio University School of Medicine, Tokyo, Japan.
16.40		5. ORAL ABSTRACT: PLURIPOTENT STEM CELL MICRORNA-294 AS A MEDIATOR OF CARDIAC PROLIFERATIVE RESPONSE IN THE HEART AFTER MYOCARDIAL INFARCTION. Mohsin Kahn, Lewis Katz School of Medicine, Temple University, Philadelphia, USA.

TIME	ROOM & LOCATION	ACTIVITY
15.00	Room 204 2° floor	Symp. 13: Modulation of transcription in cardiovascular development and disease. Chair: Joseph Hill, UT Southwestern Medical Center, Dallas, Texas, USA. Co-chair: Francine Marques, Baker IDI Heart and Diabetes Institute, Melbourne, Australia.
15.00		1. LncRNAs REGULATING CARDIAC HYPERTROPHY. Ching-Pin Chang, Indiana University, Indianapolis, USA.
15.25		2. LONG NONCODING RNAs IN CARDIAC HOMEOSTASIS AND REGENERATION. Thierry Pedrazzini, Lausanne, Switzerland.
15.50		3. LncRNAs AS THERAPEUTIC TARGETS IN CARDIAC REMODELING. Thomas Thum, Hannover Medical School, Hannover, Germany.
16.15		4. NOVEL MECHANISMS IN TRANSCRIPTOME REPROGRAMMING IN HEART FAILURE. Yibin Wang, UCLA, Los Angeles, California, USA.
16.40		5. ORAL ABSTRACT: TRANSCARDIAC GRADIENT OF CARDIO-MICRORNAs IN THE FAILING HEART. Francine Marques, Baker IDI Heart and Diabetes Institute, Melbourne, Australia.
17.00	Foyer Juan Pablo II 2° floor	Coffee break.
17.30	Auditorium Ground floor	Symp. 14: Novel mitochondrial targets for treating cardiovascular disease. Chair: Heinrich Taegtmeyer, UTHealth Medical School, Houston, Texas, USA. Co-chair: Catherine A. Makarewich, University of Texas Southwestern Medical Center, Texas, USA.
17.30		1. MITOCHONDRIAL TURNOVER AND CARDIAC METABOLIC REMODELING. Gerald Dorn, Washington University, St. Louis, Missouri, USA.
17.55		2. MITOCHONDRIAL FISSION AND FUSION PROTEINS AS TARGET FOR CARDIOPROTECTION. Derek Hausenloy, Duke-NUS, Singapore.
18.20		3. KEEPING MITOCHONDRIA IN SHAPE: A MATTER OF LIFE AND DEATH. Luca Scorrano, Venetian Institute of Molecular Medicine, Padua, Italy.
18.45		4. MITOCHONDRIAL K CHANNELS AS NOVEL TARGETS IN HEART FAILURE. Brian O'Rourke, Johns Hopkins University School of Medicine, Baltimore, Maryland, USA.
19.10		5. ORAL ABSTRACT: SYMPATHETIC NERVOUS RESPONSE TO ISCHEMIA-REPERFUSION INJURY IN HUMANS IS REDUCED AND DELAYED WITH REMOTE LIMB ISCHEMIC PRECONDITIONING. Colleen Thomas, La Trobe University, Victoria, Australia.
17.30	Microcine Ground floor	Symp. 15: Hypertension and hypertrophy. Chair: Irene L. Ennis, Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina. Co-chair: Verónica C. De Giusti, Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina.
17.30		1. THE NHE-1 AS A POINT OF DIVERGENCE IN CARDIAC HYPERTROPHY SIGNALING. Irene Ennis, Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina.
17.55		2. THE ROLE OF CARDIAC THYROTROPIN RELEASING HORMONE (cTRH) IN HEART FIBROSIS AND HYPERTROPHY. Silvia García, Instituto de Investigaciones Médicas "A. Lanari", Buenos Aires, Argentina.
18.20		3. LET'S KEEP RUNNING... EXERCISE, BASIC SCIENCE AND THE KNOWLEDGE GAPS. Julie McMullen, Baker IDI Heart and Diabetes Institute, Melbourne, Australia.
18.45		4. PROTECTIVE AXIS OF THE RENIN-ANGIOTENSIN SYSTEM. Mariela Gironacci, Instituto de Química y Fisicoquímica Biológicas, Buenos Aires,

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PROGRAM BY DAY

TIME	ROOM & LOCATION	ACTIVITY
19.10		5. ORAL ABSTRACT: PHOSPHORYLATION OF COFILIN-1 BY ERK1/2 SIGNALING ALTERS CARDIAC ACTIN DYNAMICS AND CAUSES LMNA-RELATED DILATED CARDIOMYOPATHY. Maria Chatzifrangkeskou, INSERM, Paris, France.
17.30	Aula Magna 1 ^o floor	Symp. 16: Inhibiting nodal signaling pathways as novel approaches to treating heart failure. Chair: John Solaro, University of Illinois, Illinois, USA. Co-chair: Przemyslaw Gorski, Icahn School of Medicine at Mount Sinai, Manhattan, New York, USA.
17.30		1. TARGETING ERK SIGNALING: A DOUBLE-EDGED SWORD?. Kristina Lorenz, University of Würzburg, Würzburg, Germany.
17.55		2. p38 MAPK FROM BENCH TO BEDSIDE AND BACK AGAIN. Michael Marber, King's College, London, United Kingdom.
18.20		3. INHIBITION OF CaMKII AND ROS IN TREATING CARDIOMYOCYTE APOPTOSIS AND CONTRACTILE DYSFUNCTION. Martín Vila Petroff, Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina.
18.45		4. MMP2 REGULATION OF POST ISCHEMIC CARDIAC FUNCTION. Huangtian Yang, Shanghai Institute for Biological Sciences, Shanghai, China.
19.10		5. ORAL ABSTRACT: p300 MEDIATED ACETYLATION OF SERCA2a DIMINISHES ITS ACTIVITY AND CONTRIBUTES TO CARDIAC DYSFUNCTION. Przemyslaw Gorski, Icahn School of Medicine at Mount Sinai, Manhattan, New York, USA.
17.30	Room 204 2 ^o floor	Symp. 17: Novel regulatory pathways of cardiac metabolism. Chair: E. Dale Abel, University of Iowa, Iowa, USA. Co-chair: Helena Viola, University of Western Australia, Crawley, Western Australia.
17.30		1. KLF5: AN UNDERAPPRECIATED TRANSCRIPTIONAL REGULATOR OF CARDIAC AND SYSTEMIC METABOLISM. Konstantinos Drosatos, Temple University, Philadelphia, Pennsylvania, USA.
17.55		2. IMPACT OF DIETARY SALT INTAKE ON CARDIAC REMODELING. Jose Geraldo Mill, Federal University Espirito Santo, Vitoria, Brazil.
18.20		3. ADIPOKINES AND CARDIOVASCULAR DISEASE. Noriyuki Ouchi, Nagoya University Graduate School of Medicine, Nagoya, Japan.
18.45		4. POST-TRANSLATIONAL CONTROL OF MITOCHONDRIA AND ER IN CARDIAC AND INFLAMMATORY DISEASE. Michael Sack, Center for Molecular Medicine, Bethesda, Maryland, USA.
19.10		5. ORAL ABSTRACT: LOWERING THE MIR-181C EXPRESSION PROTECTS THE HEART FROM OBESITY. Samarjit Das, Johns Hopkins, Baltimore, Maryland, USA.
20.00	BarbaRoja	Early Career Investigators- Social Meeting.

WEDNESDAY

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april

PROGRAM BY DAY

TIME	ROOM & LOCATION	ACTIVITY
8.00	Registration desk Ground floor	Registration.
8.00	Foyer Aula Magna 1 ^o floor	Speaker ready room.
8.30	Auditorium Ground floor	Symp. 18: New molecular insights of GPCR signaling in the heart. Chair: Hossein Ardehali, Northwestern University, Chicago, Illinois, USA Co-chair: Simon Diering, University Medical Center - Hamburg, Hamburg, Germany.
8.30		1. GRK2 ACTIONS ON SIGNALING IN THE HEART. Walter Koch, Temple University School of Medicine, Philadelphia, Pennsylvania, USA.
8.55		2. POST-TRANSLATIONAL MODIFICATION OF LARGE SARCOMERIC PROTEINS IN ADRENERGIC REGULATION OF CARDIAC FUNCTION. Henk Granzier, University of Arizona, Arizona, USA.
9.20		3. NEW INSIGHTS INTO β-ARRESTIN-BIASED GPCR SIGNALING. Howard Rockman, Duke University, Durham, North Carolina, USA.
9.45		4. UBIQUITINATION OF βARs IN β-ARRESTIN MEDIATED SIGNALING. Sudha Shenoy, Duke University, Durham, North Carolina, USA.
10.10		5. ORAL ABSTRACT: OXIDATIVE ACTIVATION OF cAMP-DEPENDENT PROTEIN KINASE BY NITROXYL MODULATES MYOFILAMENT PROTEIN PHOSPHORYLATION. Simon Diering, University Medical Center - Hamburg, Hamburg, Germany.
10.30	Foyer Juan Pablo II 2 ^o floor	Coffee break.
8.30	Microcine Ground floor	Symp. 19: Role of mitochondria in cell death. Chair: Charles Steenbergen, Johns Hopkins School of Medicine, Baltimore, Maryland, USA. Co-chair: Grzegorz Sawicki, University of Saskatchewan, Saskatoon, Canada.
8.30		1. ROLE OF F-ATP SYNTHASE IN FORMATION OF THE MITOCHONDRIAL PERMEABILITY TRANSITION PORE. Paolo Bernardi, University of Padova, Padova, Italy.
8.55		2. THE mPTP AND ITS REGULATORY KINASES IN CARDIOPROTECTION. Tetsuji Miura, Sapporo Medical University, Sapporo, Japan.
9.20		3. MITOCHONDRIAL PROTEIN S-NITROSYLATION IN CARDIOPROTECTION. Charles Steenbergen, Johns Hopkins School of Medicine, Baltimore, Maryland, USA.
9.45		4. CALCIUM AND CaMKII IN ISCHEMIA/REPERFUSION INJURY. Carlos A. Valverde, Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina.
10.10		5. ORAL ABSTRACT: CO-ADMINISTRATION OF SUBTHRESHOLD DOSES OF INHIBITORS OF MMP-2, MLCK AND NOS ACTIVITIES PROTECTS HEART FROM ISCHEMIA/REPERFUSION INJURY. Grzegorz Sawicki, University of Saskatchewan, Saskatoon, Canada.
8.30	Aula Magna 1 ^o floor	Symp. 20: Calcium regulation: from physiology to cardiomyopathy. Chair: Alejandro Aiello, Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina. Co-chair: Frederik Flenner, UKE, Hamburg, Germany.
8.30		1. REGULATION OF DIASTOLIC CALCIUM: BASIC MECHANISMS. David Eisner, University of Manchester, Manchester, United Kingdom.
8.55		2. TARGETING THE ALPHA-INTERACTING DOMAIN OF THE L-TYPE CALCIUM CHANNEL IN PREVENTION OF CARDIOMYOPATHY. Livia Hool, The University of Western Australia, Crawley, Australia.
9.20		3. MALE-FEMALE DIFFERENCES IN SR CALCIUM REGULATION. Susan Howlett, Dalhousie University, Nova Scotia, Canada.

WEDNESDAY
20th
april



PROGRAM BY DAY

TIME	ROOM & LOCATION	ACTIVITY
9.45		4. X-ROS SIGNALING IN HEART: STRETCH AND CALCIUM. W. Jon Lederer, University of Maryland, Baltimore, Maryland, USA.
10.10		5. OCCURRENCE OF ARRHYTHMIAS AND ELECTROPHYSIOLOGIC ABNORMALITIES IN A MOUSE MODEL OF HYPERTROPHIC CARDIOMYOPATHY. Frederik Flenner, UKE, Hamburg, Germany.
8.30	Room 204 2° floor	Symp.21: Signaling in myocardial regeneration. Chair: Steve Houser, Temple University, Philadelphia, Pennsylvania, USA.
8.30		1. LINEAGE REPROGRAMMING FIBROBLASTS TO INDUCED CARDIAC PROGENITOR CELLS. Timothy Kamp, University of Wisconsin-Madison, Madison, Wisconsin, USA.
8.55		2. CALCIUM HANDLING OF iPSC-DERIVED CARDIOMYOCYTES-THE GOOD, THE BAD AND THE UGLY. Bjorn Knollman, Vanderbilt University Medical Center, Nashville, Tennessee, USA.
9.20		3. ADRENERGIC SIGNALING IN HUMAN INDUCED PLURIPOTENT STEM CELL-DERIVED CARDIOMYOCYTES. Sian Harding, Imperial College London, London, United Kingdom.
9.45		4. ORAL ABSTRACT: BONE MARROW MESENCHYMAL STEM CELLS REPROGRAMMED INTO CARDIAC PROGENITOR CELLS BY NANO-PROTEIN TRANSFECTION BIO-UNIT. Xi-Yong Yu, Guangzhao Med Univ, China.
11.00	Juan Pablo II 2° floor	Nobel Laureate Lecture: Chair: Howard Rockman, Duke University, Durham, North Carolina, USA. Co-chair: Tish Murphy, NIH, Bethesda, Maryland, USA. Robert J Lefkowitz, Duke University, Durham, North Carolina, USA. “Seven Transmembrane Receptors”.
12.00	Juan Pablo II 2° floor	2016 ISHR General assembly Distinguished Leader Award: Chair: Lea Delbridge, University of Melbourne, Melbourne, Australia. Salvatore Pepe, Murdoch Childrens Research Institute, Melbourne, Australia.
13.00	Juan Pablo IIB (2° floor) and Reading Room (1° floor)	Posters Session & Lunch.
15.00	Auditorium Ground floor	Symp. 22: BAYER YAKUHIN SYMPOSIUM: Making cardiac regeneration happen - roadblocks to overcome. Chair: Keiichi Fukuda, Keio University School of Medicine, Tokyo, Japan. Co-chair: Megan Monsanto, San Diego State University, San Diego, California, USA.
15.00		1. STEM CELL THERAPY AND POST-INFARCTION REMODELING. Jianyi ‘Jay’ Zhang, University of Minnesota, Minneapolis, Minnesota, USA.
15.25		2. REGULATION OF MYOCYTE DEATH AND FORMATION. Steven Houser, Temple University, Philadelphia, Pennsylvania, USA.
15.50		3. CONVERTING FIBROBLASTS INTO CARDIOMYOCYTES. Ieda Masaki, Keio University School of Medicine, Tokyo, Japan.
16.15		4. PLOIDY: THE GENETIC UNDERPINNING OF REGENERATION. Mark Sussman, San Diego State University Heart Institute, San Diego, California, USA.
16.40		5. ORAL ABSTRACT: CARDIOCLUSTERS: HARNESSING THE POWER OF MULTI-LINEAGE CARDIAC STEM CELLS. Megan Monsanto, San Diego State University, San Diego, California, USA.
15.00	Microcine Ground floor	Symp. 23: Cardiac energetics in diabetic cardiomyopathy. Chair: Andrew Murray, Cambridge, United Kingdom. Co-chair: Kimberly Mellor, Auckland Bioengineering Institute, Auckland, New Zealand.

TIME	ROOM & LOCATION	ACTIVITY
15.00		1. NOVEL TARGETS OF INSULIN SIGNALING IN THE HEART - LINKS TO HEART FAILURE. E. Dale Abel, University of Iowa, Iowa, USA.
15.25		2. GLYCOPHAGY-A PATHOLOGY OF DERANGED CARDIOMYOCYTE GLYCOGEN HANDLING IN METABOLIC STRESS. Lea Delbridge, University of Melbourne, Melbourne, Australia.
15.50		3. DIASTOLIC DYSFUNCTION IN DIABETES MELLITUS. Rebecca Ritchie, Baker IDI Heart & Diabetes Institute, Melbourne, Australia.
16.15		4. METABOLIC SYNDROME AND CARDIOVASCULAR DISEASE. Rui-Ping Xiao, Peking University, Beijing, China.
16.40		5. ORAL ABSTRACT: SIRT2 CONTRIBUTES TO THE DEVELOPMENT OF HEART FAILURE THROUGH A NRF2 DEPENDENT PATHWAY. Hossein Ardehali, Northwestern University, Chicago, Illinois, USA.
15.00	Aula Magna 1° floor	Symp. 24: Mechanisms of progression of heart failure. Chair: Martin LeWinter, UVM Medical Center, Burlington, Vermont, USA. Co-chair: Carlos A. Valverde, Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina.
15.00		1. SMALL MOLECULE INHIBITION OF FIBROTIC SIGNALING FOR HEART FAILURE. Burns Blaxall, Cincinnati Children's Hospital Medical Center, Cincinnati, Ohio, USA.
15.25		2. CARDIOMYOPATHY IN THE SETTING OF MUSCLE DISEASE. Elizabeth McNally, Northwestern University, Chicago, Illinois, USA.
15.50		3. DPP4 INHIBITORS AND DIABETIC CARDIOMYOPATHY. Toyoaki Murohara, Nagoya University, Nagoya, Japan.
16.15		4. SOLUBLE EPOXIDE HYDROLASE ACTIVATION BY S-NITROSATION CONTRIBUTES TO CARDIAC ISCHEMIA-REPERFUSION INJURY. Yi Zhu, Tianjin Medical University, Tianjin, China.
16.40		5. ORAL ABSTRACT: LACK OF ESSENTIAL MYOSIN LIGHT CHAIN PHOSPHORYLATION IMPAIRS CARDIAC ABILITY TO ADAPT TO AUGMENTED PHYSICAL DEMAND. Selina Hein, Heidelberg University Hospital, Heidelberg, Germany.
15.00	Room 204 2° floor	Symp. 25: Inherited cardiomyopathies: from mutation to therapy. Chair: Peter Ferdinandy, University of Szeged, Szeged, Hungary. Co-chair: Vanessa Lima, University of Sao Paulo, Sao Paulo, Brazil.
15.00		1. ENZYME REPLACEMENT THERAPY FOR CARDIOMYOPATHY IN BARTH SYNDROME. Michael T. Chin, University of Washington, Seattle, Washington, USA.
15.25		2. GENE THERAPY IN HEART FAILURE. Roger Hajjar, Icahn School of Medicine at Mount Sinai, New York, USA.
15.50		3. MECHANISMS OF SARCOMERIC DYSFUNCTION IN HCM. Jolanda van der Velden, VU University Medical Center, Amsterdam, Netherlands.
16.15		4. THERAPIES FOR INHERITED AND ACQUIRED CARDIOMYOPATHIES. Michael Regnier, University of Washington, Seattle, Washington, USA..
16.40		5. ORAL ABSTRACT: ALDA-1 IMPROVES CARDIAC FUNCTION IN THE HEART FAILURE MICE CARRYING HUMAN ALDEHYDE DEHYDROGENASE 2 E487K VARIANT. Vanessa Lima, University of Sao Paulo, Sao Paulo, Brazil.
17.00	Auditorium & Microcine Ground floor	Section Business Meeting.
17.00	Aula Magna 1° floor	ISHR-ES. Servier session.
17.30		ISHR-ES. General Assembly.
17.00	Room 204 2° floor	Hackathon Event.
18.00	Auditorium 2 Ground floor	International Council Meeting II.
20.00	Estilo Campo	FISHR Dinner.

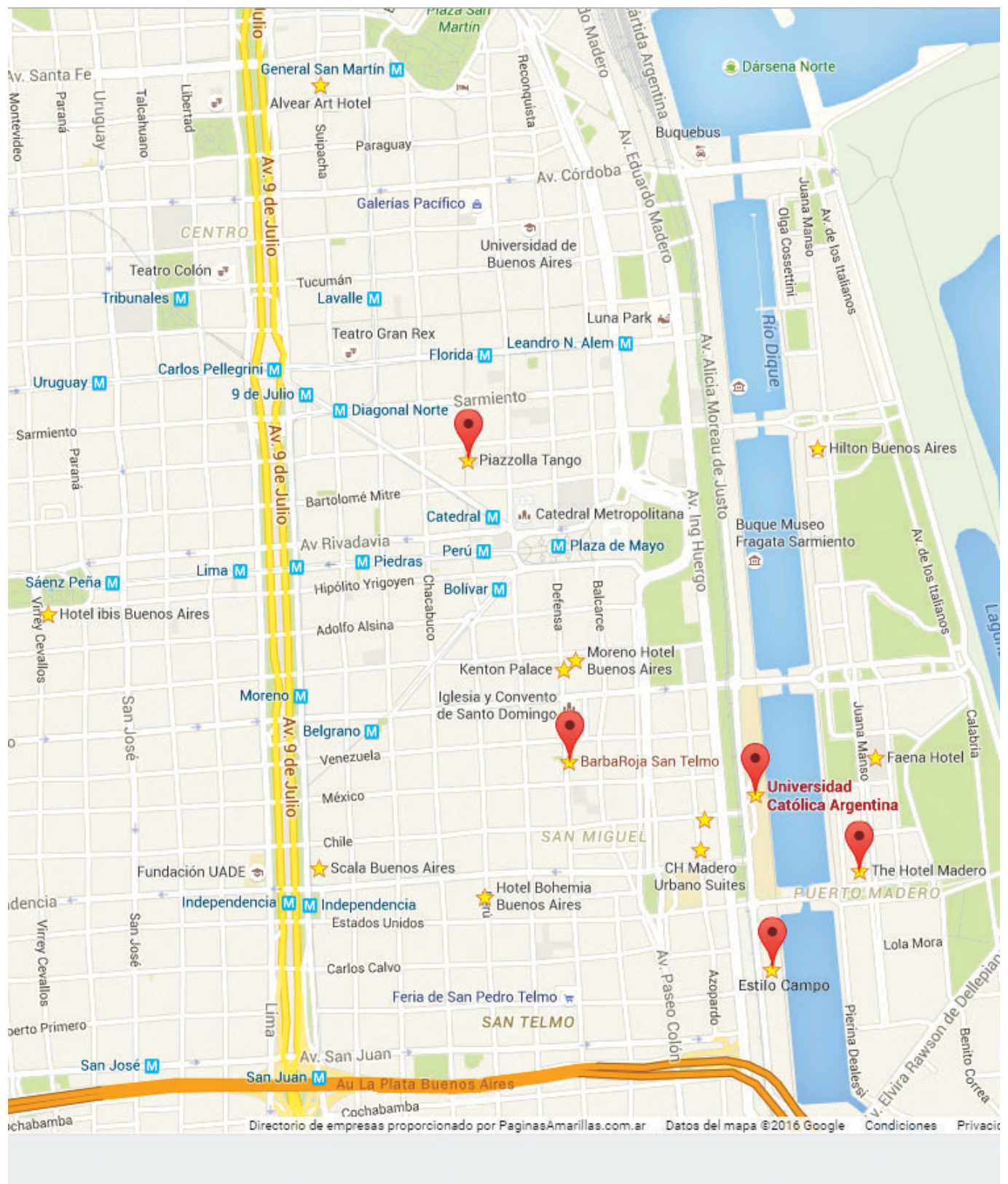
THURSDAY
21th
april



PROGRAM BY DAY

TIME	ROOM & LOCATION	ACTIVITY
8.00	Registration desk Ground floor	Registration.
8.00	Foyer Aula Magna 1 ^o floor	Speaker ready room opens.
8.30	Juan Pablo II 2 ^o floor	President's Distinguished Lecture: Chair: Matt Hori, Osaka Medical Center for Cancer and Cardiovascular Disease, Osaka, Japan. Thomas Eschenhagen, University of Hamburg, Hamburg, Germany. "Modelling heart disease in the dish - chances and challenges".
9.30	Foyer Juan Pablo II 2 ^o floor	Coffee break.
10.00	Auditorium Ground floor	Symp. 26: Signal termination in cardiac physiology and disease. Chair: Walter Koch, Temple University School of Medicine, Philadelphia, Pennsylvania, USA. Co-chair: Sudhiranjan Gupta, Texas A&M, Temple, Texas, USA.
10.00		1. THE FLIP SIDE: NEUROHORMONAL REGULATION OF CARDIAC PHOSPHATASES. Metin Avkiran, King's College London, London, United Kingdom.
10.25		2. LYSINE DEACETYLATION: OPPOSING ROLES FOR HDAC ISOFORMS IN HYPERTROPHY? Timothy McKinsey, University of Colorado – Denver, Colorado, USA.
10.50		3. DISULFIDE BOND REDUCTION: THE MANY FACES OF THIOREDOXIN-1. Junichi Sadoshima, Rutgers New Jersey Medical School, Newark, New Jersey, USA.
11.15		4. ISOFORM-SPECIFIC FUNCTIONS OF PHOSPHODIESTERASES. Manuela Zaccolo, University of Oxford, Oxford, United Kingdom.
11.40		5. ORAL ABSTRACT: INHIBITION OF MicroRNA-130a PREVENTS ANGIOTENSIN II-INDUCED CARDIAC REMODELING AND IMPROVED CARDIAC FUNCTION. Sudhiranjan Gupta, Texas A&M, Temple, Texas, USA.
10.00	Microcine Ground floor	Symp. 27: Metabolic inflexibility in heart failure. Chair: Joan Heller Brown, UC-San Diego, California, USA Co-chair: Randi Parks, NIH, Bethesda, Maryland, USA.
10.00		1. METABOLIC AND PROTEOMIC ANALYSIS OF MITOCHONDRIAL METABOLISM IN HEART FAILURE. Daniel Kelly, Sanford Burnham Prebys Medical Discovery, Orlando, Florida, USA.
10.25		2. TARGETING CARDIAC ENERGY METABOLISM AS A THERAPY TO TREAT HEART FAILURE. Gary D. Lopaschuk, University of Alberta, Alberta, Canada.
10.50		3. ALTERED DYNAMICS OF PROTEIN AND AMINO ACID METABOLISM IN FAILING HEART. Heinrich Taegtmeyer, UT Health Medical School, Houston, Texas, USA.
11.15		4. POST-TRANSLATIONAL MODIFICATION OF MITOCHONDRIAL FUNCTION IN HEART FAILURE. Rong Tian, University of Washington, Seattle, Washington, USA.
11.40		5. ORAL ABSTRACT: MICE LACKING THE MITOCHONDRIAL CALCIUM UNIporter HAVE ALTERATIONS IN F1FO-ATP SYNTHASE. Randi Parks, NIH, Bethesda, Maryland, USA.
10.00	Aula Magna 1 ^o floor	Symp. 28: Diastolic Dysfunction - basic biology and clinical implications. Chair: Rebecca Ritchie, Baker IDI Heart & Diabetes Inst, Melbourne, Australia. Co-chair: Nazha Hamdani, Institute of Physiology, Bochum, Germany.
10.00		1. CELLULAR AND MOLECULAR REGULATION OF CARDIAC FIBROTIC REMODELING. Jennifer Davis, Cincinnati Children's Hospital Medical Center, Cincinnati, Ohio, USA.
10.25		2. CARDIAC ISOFORM EXPRESSION - A PERSONALIZED AND SYSTEMS APPROACH TO DIASTOLIC HEART FAILURE. Michael Gotthardt, Max-Delbrück-Center for Molecular Medicine, Berlin, Germany.

MAP OF THE VENUE'S SURROUNDINGS



Universidad Católica Argentina, Av. Alicia Moreau de Justo 1300

Hotel Madero, Dique 2, Rosario Vera Peñaloza 360

BarbaRoja Bar, Defensa 550

Piazzolla Tango Florida 165, Galería Güemes

Estilo Campo Av Alicia Moreau de Justo 1840

TUESDAY 19 th April 2016 - XXII ISHR WORLD CONGRESS - Buenos Aires, Argentina										
	Ground floor	Foyer Aula Magna	Library 1 st floor	JP II (B)	Juan Pablo II 2 nd floor	Auditorium ground floor	Microcine ground floor	Aula Magna 1 st floor	Auditorium 2 ground floor	Room 204 2 nd floor
8.00	8.00 Registration-Travel desk	8.00 Speakers ready room								
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20.30	Early Career Investigators Social Meeting									
21.00										
21.30										



BARBAROJA BAR - San Telmo **ECI's Social Meeting - Tuesday 19th - 20:00 hs**

This establishment is the first bar opened by the renown Barbaroja brand of beer. Production takes place locally, near Escobar in the Province of Buenos Aires. BarbaRoja has been producing beer since 2001.

The bar is located in the heart of the San Telmo neighborhood and has been declared a historic monument (heritage) of the City of Buenos Aires. The building was the home of Eduardo Madero, the designer of the original Buenos Aires Port, and was built around the same time as the Port.

The bar is organized in the form of an art gallery, with a set of "gazebos" and tables where patrons can enjoy drinks. The restoration of the walls, structures, and ceilings allow guests to appreciate the methods and materials used in the construction of this historic building.

Barbaroja is a high quality beer that would be enjoyable to all beer enthusiasts. Produced with the best-quality local ingredients, it is well-known for its flavor across a wide variety of types of beers, from the more traditional Lager, Pale Ale, and Stout (Trigueña) to the more exotic Lemon beer (Lager with lemon juice), Fruit-flavored beer (black beer with raspberry), Green beer (Lager with green spices), and Floral beer (Pale Ale with a flavor of natural flowers). All in all, BarbaRoja currently offers 16 varieties of beer and, in this way, provides ample opportunity for experiencing the enticing world of craft beers.



PIAZZOLLA Tango - Eventos- San Telmo **Gala Dinner - Thursday 21th - 20:00 hs**

A unique space specially set up to hold musical events. It is part of the traditional Galeria Guemes, located in 165 Florida Street, and was first opened to the public on December 15, 1915. It includes a theater venue, Teatro Astor Piazzolla and a coffee place, the Salon Cafe Triunfal, a sophisticated and elegant space in the style of "Art Nouveau."

A second theatre, Belle Epoque, recently renovated with luxury accommodation and perfect acoustic, is the perfect place to spend the evening and to enjoy a time to remember.

The majestic dinner show, with live music, dancing professionals, and excellent singers, combine with the exquisite dishes being served to make your evening a magic time, mixed with the spirit and the memories of Buenos Aires, Astor Piazzolla, and the Tango.

The Piazzolla Sextet, together with an excellent ballet company and some of the best argentine singers deliver a unique performance every night, featuring the piece "Las Cuatro Estaciones del Tango" (the Four Seasons of Tango), by Astor Piazzolla and music by other renown argentine composers.

TIME	ROOM & LOCATION	ACTIVITY
10.50		3. DETERMINANTS OF DIASTOLIC DYSFUNCTION IN HFpEF. Martin LeWinter, UVM Medical Center, Burlington, Vermont, USA.
11.15		4. ROLE OF cMyBP-C IN DIASTOLIC DYSFUNCTION. Sabine J. van Dijk, Institute for Cardiovascular Research, Amsterdam, Netherlands.
11.40		5. IMPACT OF CGMP-PKG PATHWAY MODULATION ON TITIN PHOSPHORYLATION AND TITIN-BASED MYOCARDIAL PASSIVE STIFFNESS. Nazha Hamdani, Institute of Physiology, Bochum, Germany.
10.00	Room 204 2° floor	Symp. 29: Regulation of autophagy and cell death pathways in health and disease. Chair: Lorrie Kirshenbaum, University of Manitoba, Winnipeg, Canada. Co-chair: Hiroshi Akazawa, University of Tokyo, Tokyo, Japan.
10.00		1. MITOPHAGY AND BIOGENESIS: PARADOXICAL RESPONSE TO ISCHEMIA. Roberta Gottlieb, Cedars-Sinai Heart Institute, Los Angeles, California, USA.
10.25		2. IMPORTANCE OF MITOCHONDRIAL QUALITY CONTROL IN THE MYOCARDIUM. Asa Gustafsson, University of California-San Diego, California, USA.
10.50		3. INTERPLAY BETWEEN AUTOPHAGY, APOPTOSIS AND NECROSIS PATHWAYS. Lorrie Kirshenbaum, University of Manitoba, Winnipeg, Canada.
11.15		4. MITOCHONDRIAL DEGRADATION AND INFLAMMATION IN FAILING HEARTS. Kinya Otsu, King's College, London, United Kingdom.
11.40		5. ORAL ABSTRACT: ABNORMAL TRAFFICKING OF CONNEXIN 43 ON MICROTUBULES PARTICIPATES TO THE DEVELOPMENT OF LMNA-RELATED DILATED CARDIOMYOPATHY. Coline Macquart, INSERM, Paris, France.
12.00	Juan Pablo II 2° floor	Janice Pfeffer Distinguished Lecture: Chair: Martín Vila Petroff, Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina. Edward Lakatta, NIA, NIH, Baltimore, Maryland, USA. "The heartbreak of aging viewed from the angiotensin II-remodeled arterial wall".
13.00	Juan Pablo IIB (2° floor) and Reading Room (1° floor)	Posters Session & Lunch.
15.00	Juan Pablo II 2° floor	Peter Harris Distinguished Scientist Award: Chair: John Solaro, University of Illinois, Illinois, USA. Donald Bers, UC-Davis, Davis, California, USA. "Calmodulin and CaMKII in heart failure and arrhythmias".
16.00	Foyer Juan Pablo II 2° floor	Coffee break.
16.30	Auditorium Ground floor	Symp. 30: Novel mitochondrial localization and function of signal transducers. Chair: Peipei Ping, David Geffen School of Medicine, UCLA, Los Angeles, California, USA. Co-chair: Eliana C. Martinez, University of Miami Miller School of Medicine, Miami, Florida, USA.
16.30		1. NOVEL MITOCHONDRIAL LOCALIZATION AND FUNCTION OF SIGNAL TRANSDUCERS. Rainer Schulz, Justus Liebig University, Giessen, Germany.
16.55		2. G PROTEINS AND MITOCHONDRIAL FUNCTION. Joan Heller Brown, University of California-San Diego, California, USA.
17.20		3. THE DYNAMIC MITOCHONDRIAL PROTEOME. Peipei Ping, David Geffen School of Medicine, UCLA, Los Angeles, California, USA.
17.45		4. MITOCHONDRIA Ca²⁺ AND cAMP SIGNALING. Tulio Pozzan, University of Padova, Padova, Italy.
18.10		5. ORAL ABSTRACT: TARGETING OF MUSCLE A-KINASE ANCHORING PROTEIN B-RSK3 COMPLEXES PRESERVES CARDIAC STRUCTURE AND FUNCTION FOLLOWING MYOCARDIAL INFARCTION. Eliana C. Martinez, University of Miami Miller School of Medicine, Miami, Florida, USA.

THURSDAY
21th
april



PROGRAM BY DAY

TIME	ROOM & LOCATION	ACTIVITY
16.30	Microcine Ground floor	Symp. 31: New insights into the role of CaMKII in the heart. Chair: Johannes Backs, University of Heidelberg, Heidelberg, Germany. Co-chair: Javier Duran, University of Chile, Santiago de Chile, Chile.
16.30		1. REDOX REGULATION OF CaMKII AND MITOCHONDRIAL FUNCTION. Mark E. Anderson, John Hopkins University, Maryland, USA.
16.55		2. PATHWAYS OF CaMKII ACTIVATION IN THE HEART. PHYSIOLOGICAL AND PATHOLOGICAL CONSEQUENCES. Julieta Palomeque, Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina.
17.20		3. THE TANGO BETWEEN PKA AND CaMKII SIGNALING IN CARDIAC PACEMAKER. Yael Yaniv, Israel Institute of Technology, Haifa, Israel.
17.45		4. ROLE OF PHOSPHOLAMBAN ABLATION IN CaMKII-INDUCED ARRHYTHMIAS AND CARDIAC DAMAGE. Alicia Mattiazzi, Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina.
18.10		5. ORAL ABSTRACT: TESTOSTERONE ACTIVATES MEF2 THROUGH CaMKII AND ANDROGEN RECEPTOR TO INDUCE CARDIOMYOCYTE HYPERTROPHY. Javier Duran, University of Chile, Santiago de Chile, Chile.
16.30	Aula Magna 1° floor	Symp. 32: Novel mechanisms and therapeutic targets for arrhythmias. Chair: Livia Hool, The University of Western Australia, Crawley, Australia. Co-chair: David Hassel, Heidelberg University Hospital, Heidelberg, Germany.
16.30		1. FUNCTIONAL AND STRUCTURAL ATRIAL REMODELING IN DISEASE. Katharine Dibb, Institute of Cardiovascular Sciences, Manchester, United Kingdom.
16.55		2. REDOX REGULATION OF RyR2. Paulina Donoso, University of Chile, Santiago de Chile, Chile.
17.20		3. PHOSPHOLAMBAN IN ARRHYTHMOGENIC CARDIOMYOPATHY: A NEW SURPRISE. Litsa Kranias, University of Cincinnati – College of Medicine, Cincinnati, Ohio, USA.
17.45		4. T-TUBULE AND RYANODINE RECEPTOR MICRODOMAINS IN ISCHEMIC HEART DISEASE. Karin Sipido, Katholieke Universiteit – Leuven, Belgium.
18.10		5. ORAL ABSTRACT: miR-19b DEFICIENCY IMPAIRS CARDIAC REPOLARIZATION IN ZEBRAFISH. Alexander Benz, University Hospital, Heidelberg, Germany.
16.30	Room 204 2° floor	Symp. 33: Mechanical forces and calcium microdomains. Chair: Xander Wehrens, Baylor College of Medicine, Houston, Texas, USA. Co-chair: Luis Gonano, Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina.
16.30		1. MEASURING CALCIUM MICRODOMAINS IN THE INTACT HEART. Ariel Escobar, University of California-Merced, California, USA.
16.55		2. CALCIUM TRANSPORT IN HUMAN ATRIAL MYOCYTES. Rosana Bassani, University of Campinas, São Paulo, Brazil.
17.20		3. INTRACELLULAR CALCIUM REGULATION BY CARDIAC STRETCH. Gustavo Pérez, Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina.
17.45		4. CALCIUM MICRODOMAINS ORGANIZED BY JUNCTOPHILINS. Long Sheng Song, University of Iowa, Iowa City, Iowa, USA.
18.10		5. ORAL ABSTRACT: RUNX1 DEFICIENCY IMPROVES CARDIOMYOCYTE FUNCTION POST-MYOCARDIAL INFARCTION. Charlotte McCarroll, University of Glasgow, Glasgow, United Kingdom.
20.00	Piazzolla Tango	GALA DINNER

POSTER SESSIONS

Posters are located in the Juan Pablo II (b) (2nd floor) and Reading Room (1st floor).

Poster hanging 8:00-9:00 AM / Poster removing 6:00-7:00 PM

Unclaimed posters will not be stored and will be discarded at the end of the Congress.

Poster distribution

	Juan Pablo II (b)	Reading Room
Tuesday, April 19 12:00-1:30 PM	TU-001 to TU-057	TU-061 to TU-103
Wednesday, April 20 1:00-3:00 PM	WE-001 to WE-049	WE-061 to WE-105
Thursday, April 21 1:00-3:00 PM	TH-001 to TH-053	TH-061 to TH-099

TUESDAY, April 19, 12:00-1:30 PM

Metabolism/Obesity/Diabetes

- TU-001 SM22α Ubiquitination Promotes G6PD Activation and NADPH Production, Contributing to GSH Homeostasis and VSMC Survival** Li-Hua Dong¹, Sui-Bing Miao¹, Qian-Qian Pei¹, Mei Han¹, ¹*Department of Biochemistry and Molecular Biology, College of Basic Medicine, Key Laboratory of Medical Biotechnology of Hebei Province, Key Laboratory of Neural and Vascular Biology of Ministry of Edu, Shijiazhuang, China*
- TU-002 PGE₂ promotes biliary cholesterol excretion and attenuates diet-induced atherosclerosis by activation of EP3-mediated HNF4α/CYP7A1 pathway in liver** Shuai Yan¹, Juan Tang¹, Yuanyang Wang¹, Shengkai Zuo¹, Guilin Chen¹, Jian Zhang¹, Di Chen¹, Ying Yu¹, ¹*Institute for Nutritional Sciences, Shanghai Institutes for Biological Sciences, Graduate School of the Chinese Academy of Sciences, Chinese Academy of Sciences, Shanghai, China*
- TU-003 Protective Effect of Omega-3 Polyunsaturated Fatty Acid in Myocardial Infarction in Mice-- A Metabolomics Based Study.** Xuan Fang¹, Xu Zhang², Ding Ai², Chun Jiong Wang², Jin Long He², Yi Zhu^{1,2}, ¹*Peking University Health Science Center, Beijing, China*, ²*Tianjin Medical University, Tianjin, China*
- TU-004 A Comparative Study on High-Fat Diet Induced Metabolic Abnormalities in Male and Female C57BL/6 Mice.** Mukesh Nandave¹, Anup Ramdhare¹, ¹*Dept. of Pharmacology SPP School of Pharmacy and Technology Management SVKM's NMIMS University, Mumbai, Maharashtra, India*
- TU-005 Role of hyperhomocysteinemia in Alzheimer's neurodegeneration and the protections.** Jianzhi Wang¹, ¹*Tongji Medical College, Wuhan, China*
- TU-006 Bilirubin mediates heme oxygenase-1-induced vascular benefits in diabetic mice.** Yu Huang¹, Jian Liu¹, ¹*Chinese University of Hong Kong, Hong Kong, China*
- TU-007 Inhibition of miR-92a Improves Endothelial Function in Diabetes.** Lingshan Gou¹, Jiangyun Luo¹, Lei Zhao¹, Li Wang¹, Chi Wai Lau¹, Yu Huang¹, ¹*Chinese University of Hong Kong, Hongkong, China*
- TU-008 MicroRNA-18a suppresses LXRβ expression in human neuroblastoma cells and hepatocytes.** Dandan Shang¹, Xin xin¹, Mei Han¹, ¹*Hebei Medical University, Shijiazhuang, Hebei province, China*
- TU-009 Phosphodiesterase-5 inhibition protects against the development of diabetic cardiomyopathy in type-2 diabetes mellitus.** Tamás Radovits¹, Csaba Mátyás¹, Balázs Tamás Németh¹, Attila Oláh¹, Mihály Ruppert¹, Dalma Kellermayer¹, Marianna Török¹, Lilla Szabó¹, Alex Ali Sayour¹, Gábor Szabó², Béla Merkely¹, ¹*Heart and Vascular Center, Semmelweis University, Budapest, Hungary*, ²*Department of Cardiac Surgery, University of Heidelberg, Heidelberg, Germany*
- TU-010 Central Body Fat Distribution Attenuates Heart Rate Recovery after Maximal Exercise in Young Healthy Obese Women.** Wanda R P Lopes-Vicente¹, Felipe X Cepeda², Maria F Hussid¹, Kátia De Angelis¹, Simone Dal Corso¹, Fernanda C Lanza¹, Fernanda M Consolim-Colombo^{1,2}, Ivani C Trombetta^{1,2}, ¹*Universidade Nove de Julho, São Paulo, São Paulo, Brazil*, ²*Heart Institute, University of Sao Paulo, São Paulo, São Paulo, Brazil*
- TU-011 Deficiency of Annexin-A1 Exaggerates Diabetic Cardiomyopathy in a Mouse Model of Type 1 Diabetes.** Cheng Xue Qin^{1,2}, Sarah Rosli^{1,3}, Helen Kiriazis¹, Minh Deo¹, Eric F Morand⁴, Yuan H Yang⁴, Xiao-Jun Du¹, Rebecca H Ritchie^{1,4}, ¹*Baker IDI Heart and Diabetes Institute, Melbourne, Australia*, ²*Department of Pharmacology, University of Melbourne, Melbourne, Australia*, ³*Department of Medicine (Central Clinical School), Monash University, Melbourne, Australia*, ⁴*Centre of Inflammatory Diseases, Monash University, Clayton, Australia*
- TU-012 β-adrenergic and AMPK signaling regulates cardiomyocyte glycogen autophagy in metabolic stress settings.** Kimberley Mellor^{1,2}, Vicky Benson¹, Upasna Varma², Ellie Stevens¹, Lea Delbridge², ¹*University of Auckland, Auckland, New Zealand*, ²*University of Melbourne, Victoria, Australia*
- TU-013 Aromatase expression in the myocardium and pericardial adipose – a potential arrhythmogenic modulator?** Gabriel Bernasocchi¹, James Bell¹, Wendy Ip¹, Wah Chin Boon², Salvatore Pepe³, Jonathan Kalman⁴, Stephen Harrap¹, Lea Delbridge¹, ¹*Department of Physiology, University of Melbourne, Melbourne, Victoria, Australia*, ²*The Florey Institute of Neuroscience, University of Melbourne, Melbourne, Victoria, Australia*, ³*Murdoch Children's Research Institute, Department of Paediatrics, University of Melbourne, Melbourne, Victoria, Australia*, ⁴*Department of Cardiology, Royal Melbourne Hospital and the Department of Medicine, University of Melbourne, Melbourne, Victoria, Australia*
- TU-014 Effects of perindopril on cardiovascular function in middle- aged diet-induced rat models of the**

POSTER SESSIONS

metabolic syndrome. Andrew Fenning¹, Kylie Connolly¹, Fiona Coulson¹, ¹CQUniversity, North Rockhampton, Qld, Australia

TU-015 Protein content of serum exosomes are correlated to atherosclerosis. Jing Quan¹, Mei Jiang², Sifeng Chen¹, ¹Department of Physiology and Pathophysiology, College of Basic Medical Sciences, Fudan University, Shanghai, China, ²Dept. of Neurology, Gongli Hospital, Shanghai, China

TU-016 Common Variation in WNK1 and Blood Pressure Responses to Dietary Sodium or Potassium Interventions: A Family-Based Association Study. Jianjun Mu¹, Fuqiang Liu¹, Chao Chu¹, Tongshuai Guo¹, Zuyi Yuan¹, ¹Cardiovascular Department, First Affiliated Hospital of Xi'an Jiaotong University, Xian, China

TU-017 High Salt Intake Fail to Enhance Plasma Adiponectin in Normotensive Salt-Sensitive Subjects. Jianjun Mu¹, Fuqiang Liu¹, Tongshuai Guo¹, Chao Chu¹, Zuyi Yuan¹, ¹Department of Cardiology, First Affiliated Hospital of Xian Jiaotong University, Xian, China

TU-018 Effects of renin-angiotensin system inhibitors on renal expression of renalase in Sprague-Dawley rats fed with high salt diet. Jianjun Mu¹, Yang Wang¹, Wenling Zheng¹, Yongbo Lv¹, Yumeng Cao¹, Jiawen Hu¹, Tongshuai Guo¹, Chao Chu¹, ¹Department of Cardiology, First Affiliated Hospital of Xian Jiaotong University, Xian, China

TU-019 Efficacy and safety of losartan/amlodipine single pill versus free combination at the same dose in hypertensive patients with metabolic syndrome. Aniskhon Alyavi², Jamol Uzokov¹, Bekzod Karimov¹, Akmal Khudoykulov¹, Gulnoza Sultonova¹, Manzura Uzoqova¹, ¹Tashkent Medical Academy, Tashkent, Uzbekistan, ²JSC «Republican specialized scientific-practical medical center of therapy and medical rehabilitation», Tashkent, Uzbekistan

TU-020 Cardiogenetics Mapping of Cardiovascular Diseases and Using Those Variants as a Biomarker. Mahmut Cerkez Ergoren¹, Esra Ozerkman³, Sehime G. Temel², Çetin Lütfi Baydar⁴, Cenk Conkbayır⁵, Gamze Mocan¹, ¹Near East University, Faculty of Medicine, Department of Medical Biology, Nicosia, Cyprus, ²Near East University, Faculty of Medicine, Department of Embryology and Histology, Nicosia, Cyprus, ³Near East University Hospital, Medical Genetics Laboratory, Nicosia, Cyprus, ⁴Near East University, Faculty of Medicine, Department of Forensic Medicine, Nicosia, Cyprus, ⁵Near East University, Faculty of Medicine, Department of Cardiology, Nicosia, Cyprus

TU-021 Enhanced CD34 expression was an potential independent prognostic factor for breast cancer. Shenhua Xu¹, Zhanhong Chen¹, Weizhen Xu¹, Zhiqiang Ling¹, Gu Zhang¹, Lei Lei¹, Xiyang Shao¹, Xiaojia Wang¹, ¹Zhejiang Cancer Hospital, Hangzhou, China

TU-022 High fat diet increases the activity of cardiac ryanodine receptors in lipid bilayers. Luis Montecinos¹, Jose Finkelstein¹, Genaro Barrientos¹, Jaime Riquelme¹, Paola Llanos¹, Gina Sanchez¹, Ricardo Bull¹, Paulina Donoso¹, ¹Instituto de Ciencias Biomedicas. Facultad de Medicina. Universidad de Chile, Santiago, Chile

TU-023 Tetrahydroxystilbene glucoside inhibits excessive autophagy and improves microvascular endothelial dysfunction in prehypertensive spontaneously hypertensive rats. Qianqian Dong¹, Siwang Wang¹, Haifeng Zhang¹, ¹Fourth Military Medical University, Xi'an, China

TU-024 The effects of epicatechin on vascular smooth muscle cells in an animal model of obesity. Kirsty MacRae¹, Rebecca Vella¹, Andrew Fenning¹, ¹Central Queensland University, Rockhampton, Australia

TU-025 The lack of Toll Like Receptor 4 did not prevent the diabetes-induced cardiac electrical changes. Maria Micaela Lopez Alarcon¹, Maria Julieta Fernandez Ruocco¹, Gustavo Monerrat-Calhi¹, Emiliano Medei¹, ¹Instituto de Biofísica Carlos Chagas Filho, Universidade Federal do Rio de Janeiro, Brazil

TU-026 Carbonic anhydrase and ion transporters in diabetic cardiomyopathy. Carolina Jaquenod De Giusti¹, Paula G. Blanco², Juan M. Lofeudo¹, Bernardo V. Alvarez¹, ¹Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina, ²Facultad de Ciencias Médicas, Universidad Nacional de La Plata, La Plata, BsAs, Argentina

TU-027 High intensity exercise reduces fibrosis and hypertrophy but not oxidative stress in diabetic cardiomyopathy. Ulises Novoa¹, Diego Arauna¹, Carmen Zambrano¹, Madelaine Nuñez¹, Daniel Gonzalez¹, ¹Universidad de Talca, Talca, Chile

TU-028 Secondary (symptomatic) hypertension in patients with metabolic syndrome. Ramiz Abdulgasanov¹, Sanchez Sebastian¹, Alexey Ivanov¹, Mehriban Abdulgasanova¹, Aslan Ordokov¹, ¹Scientific center of cardiovascular surgery named after A. N. Bakulev, Moscow, Russia

TU-029 The impact of diabetes mellitus on miR expression of patients with or without heart failure. Raiana Barbosa¹, Bruna Farjun¹, Alexandre Siciliano², Adriana Carvalho¹, ¹Federal University of Rio de Janeiro, Rio de Janeiro/RJ, Brazil, ²National Institute of Cardiology, Rio de Janeiro/RJ, Brazil

TU-030 Nitric oxide bioavailability in rats with metabolic syndrome: effect of (–)-epicatechin in the heart. Barbara Piotrkowski¹, Valeria Calabró¹, Laura Fischerman¹, Marcela Vazquez-Prieto², Monica Galleano¹, Cesar Fraga¹, ¹Physical chemistry-IBIMOL, University of Buenos Aires-CONICET, Buenos Aires, Argentina, ²Dept of Pathology-IMBECU, University of Cuyo-CONICET, Mendoza, Argentina

TU-031 Characterization of the CYP2C19*2 allelic variant distribution in Chilean coronary disease patients. Jenny Ruedlinger¹, Valena Prado¹, Nicolás Saavedra¹, Fernando Lanás¹, Braulio Bobadilla¹, Luis Perez², Luis A. Salazar¹, ¹Universidad de la Frontera, Temuco, Chile, ²Universidad de Concepción, Concepción, Chile

Signaling Mechanisms

TU-032 Inhibition of phosphoinositide 3-kinase γ promotes cardiac mitophagy and prevents anthracycline-

related cardiomyopathy. Alessandra Ghigo¹, Mingchuan Li¹, Maria Chiara De Santis¹, Nicola Pianca², Irene Franco¹, Sebastiano Sciarretta³, Fulvio Morello⁴, Marco Sandri², Tania Zaglia², Marco Mongillo², Emilio Hirsch¹, ¹Department of Molecular Biotechnology and Health Sciences, Molecular Biotechnology Center, University of Torino, Torino, Italy, ²Department of Biomedical Sciences and Venetian Institute of Molecular Medicine, University of Padova, Padova, Italy, ³Department of Medical and Surgical Sciences and Biotechnologies, University of Rome "Sapienza", Latina, Italy, ⁴S.C. Medicina d'Urgenza A.O. Città della Salute e della Scienza di Torino, Torino, Italy

- TU-033 Oxidative Activation of cAMP-dependent Protein Kinase by Nitroxyl modulates Myofilament Protein Phosphorylation.** Simon Diering¹, Mara Goetz¹, Sophie Schobesberger¹, Sebastian Pasch², Sonia Donzelli¹, Konstantina Stathopoulou¹, Angelika Piasecki¹, Bruce King³, Viacheslav Nikolaev⁴, Susanne Lutz², Philip Eaton⁵, Friederike Cuello¹, ¹Department of Experimental Pharmacology and Toxicology, University Medical Center Hamburg-Eppendorf; Cardiovascular Research Center; DZHK partner site Hamburg/Lübeck/Kiel, Hamburg, Germany, ²Institute of Pharmacology, University Medical Center Göttingen, Georg-August University Göttingen, Göttingen, Germany, ³Department of Chemistry, Wake Forest University, Winston-Salem, North Carolina, USA, ⁴Institute of Experimental Cardiovascular Research, University Medical Center Hamburg-Eppendorf, Hamburg, Germany, ⁵King's College London, Cardiovascular Division, The British Heart Foundation Centre of Excellence, The Rayne Institute, St Thomas' Hospital, London, SE1 7EH, UK
- TU-034 Testosterone activates MEF2 through CaMKII and androgen receptor to induce cardiomyocyte hypertrophy.** Javier Duran¹, Daniel Lagos¹, Manuel Estrada¹, ¹Universidad de Chile, Santiago, RM, Chile
- TU-035 Acetylation of SERCA2a inhibits its function and is modulated by SIRT1.** Changwon Kho¹, Dongtak Jeong¹, Ahyoung Lee¹, Seung Pil Jang², Dong Kwon Yang¹, Przemek Gorski¹, Jae Gyun Oh¹, Woo Jin Park², Roger Hajjar¹, ¹Cardiovascular Research Center, Icahn School of Medicine at Mount Sinai, New York, NY, USA, ²Gwangju Institute of Science and Technology, Gwangju, Republic of Korea
- TU-036 Contribution of serotonin 5-HT_{2B} receptors to the mobilization of bone marrow endothelial progenitors in cardiac valve degeneration.** Roland Lawson¹, Estelle Ayme-Dietrich¹, Houda Bouhadja¹, Claudia De Tapia¹, Helène Rouillard², Jordane Stoltz², Sophie Banas³, Bernard Gasser², Jean-Philippe Mazzucotelli⁴, Luc Maroteaux³, Laurent Monassier¹, ¹Laboratory of Neurobiology and Cardiovascular Pharmacology (Faculty of Medicine EA 7296), Strasbourg, France, ²Laboratoire de Pathologie (Centre Hospitalier Emile Muller), Mulhouse, France, ³Institut du Fer à Moulin (Inserm UMR S-839), Paris, France, ⁴Service de chirurgie cardiaque (Centre Hospitalier de Strasbourg), Strasbourg, France
- TU-037 Metformin attenuates angiotensin II induced transforming growth factor- β 1 production through the inhibition of HNF4 α by AMPK activation.** Han Xiao¹, Ruifei Chen¹, Youyi Zhang¹, ¹Institute of vascular medicine, Peking University Third Hospital, Beijing, China
- TU-038 Chronic inflammation inhibits myofibroblast activation through macrophage Ccl12 secretion.** Kristine DeLeon-Pennell¹, Rugmani Padmanabhan Iyer¹, Courtney Cates¹, Elizabeth Flynn¹, Yonggang Ma¹, Presley Cannon¹, De'Aries Shannon¹, Michael Garrett², William Buchanan³, Merry Lindsey^{1,4}, ¹Mississippi Center for Heart Research, Department of Physiology and Biophysics, University of Mississippi Medical Center, Jackson, USA, ²Department of Pharmacology, University of Mississippi Medical Center, Jackson, USA, ³Department of Periodontics and Preventative Science, University of Mississippi Medical Center, Jackson, USA, ⁴Research Service, G.V. (Sonny) Montgomery Veterans Affairs Medical Center, Jackson, USA
- TU-039 HnRNPA1 regulates neointima formation through modulating vascular smooth muscle cell functions.** Qishan Chen¹, Yuan Huang¹, Guanmei Wen², Mei Yang¹, Bing Dai¹, Le Luong², Jianhua Zhu¹, Qingzhong Xiao², Li Zhang¹, ¹First Affiliated Hospital of Zhejiang University School of Medicine, Hangzhou, Zhejiang, China, ²Queen Mary, University of London, London, UK
- TU-040 Bach1 represses Wnt/b-catenin signaling and angiogenesis.** Dan Meng¹, Li Jiang¹, Xiangxiang Wei¹, Junxu Liu¹, Cong Niu¹, Xie Xu¹, Jianyi Zhang², Sifeng Chen⁰, ¹Fudan University, Shanghai, China, ²University of Minnesota Medical School, Minneapolis, USA
- TU-041 Kruppel-like Factor 2 Mediates the Suppressive Effect of Statin on BMP4-Smad Signaling.** Jiang-Yun Luo¹, hongsong Zhang¹, lingshan Gou¹, Chi Wai Lau¹, Yu Huang¹, ¹The Chinese University of Hong Kong, Hong Kong, China
- TU-042 A role for antioxidants in reversing Tiotropium induced cardiotoxicity.** Shabana Cassambai¹, Sadie Dean¹, Christopher J Mee¹, Katherine L Harvey¹, Afthab Hussain¹, ¹Coventry University, Coventry, West Midlands, UK
- TU-043 MicroRNA-26a Inhibits Vascular Smooth Muscle Cell Proliferation and Neointimal Hyperplasia by Targeting MAPK6.** Tan Juanjuan¹, Yang Liguang², Liu Cuicui^{3,4}, Yan Zhiqiang^{3,4}, ¹School of Life Sciences and Biotechnology, Shanghai Jiao Tong university, Shanghai, China, ²Southern Medical University, Guangzhou, China, ³Fengxian Hospital Affiliated to Southern Medical University, Shanghai, China, ⁴Sixth People's Hospital South Campus Affiliated to Shanghai Jiao Tong University, Shanghai, China
- TU-044 New insights into adrenergic regulation of cardiac remodelling.** Youyi Zhang^{1,2}, ¹Institute of Vascular Medicine, Peking University Third Hospital, Beijing, China, ²Beijing Key Laboratory of Cardiovascular Receptors Research, Beijing, China, ³Key Laboratory of Cardiovascular Molecular Biology and Regulatory Peptides, Ministry of Health, China
- TU-045 ER stress mediates cardiac ion channel changes in heart failure.** Man Liu¹, Guangbin Shi¹, Anyu Zhou¹, Samuel C. Dudley¹, ¹Rhode Island Hospital and Brown University, Providence, RI, USA

POSTER SESSIONS

- TU-046 The neuro-cardiac interaction defines an extracellular microdomain required for neurotrophic signalling.** Mauro Franzoso^{1,2}, Tania Zaglia^{1,2}, Nicola Pianca^{1,2}, Libero Vitiello³, Marco Mongillo^{1,2}, ¹Venetian Institute of Molecular Medicine, Padova, Italy, ²Department of Biomedical Sciences, University of Padova, Padova, Italy, ³Department of Biology, University of Padova, Padova, Italy
- TU-047 Chronic lead exposure impairs vascular reactivity through oxidative stress dependent mechanism: MAPKs pathway activation.** Maylla Simões¹, Bruna Azevedo¹, Jonaina Fiorim¹, Cindy Toscano¹, Mercedes Salices³, Dalton Vassallo^{1,2}, ¹Universidade Federal do Espírito Santo, Vitória, ES, Brazil, ²EMESCAM-Escola Superior de Ciências da Santa Casa de Misericórdia de Vitória, Vitória, ES, Brazil, ³Universidad Autónoma Madrid, Madrid, Spain
- TU-048 mTORC1 and mTORC2 preserve cardiac function by regulating metabolism and contractility.** Lifan Xu¹, Pankaj Shende¹, Christian Morandi¹, Thierry Pedrazzini², Laura Pentassuglia¹, Sonia Lebboukh¹, Michael Hall¹, Markus A. Rüegg¹, Marijke Brink¹, ¹University of Basel, Basel, Switzerland, ²University of Lausanne Medical School, Lausanne, Switzerland
- TU-050 Uncovering novel signaling components for DCM development - a phospho-proteomics approach.** Stephan Lange¹, Lauren Waller¹, Nancy Dalton¹, Erika Alvarez¹, Kirk Peterson¹, Ju Chen¹, Elisabeth Ehler², Majid Ghassemian¹, ¹UC San Diego, La Jolla, CA, USA, ²King's College London, London, UK
- TU-051 Beta-adrenergic stimulation induces HDAC5 nuclear accumulation by B55alpha-PP2A-mediated dephosphorylation.** Kate Weeks¹, Antonella Ranieri¹, Chris Molenaar¹, Metin Avkiran¹, ¹King's College London, London, UK
- TU-052 Identification of a high affinity, high efficacy adenosine A_{2B} receptor agonist with potent anti-fibrotic activity.** Elizabeth Vecchio¹, Chung Chuo^{1,2}, Peter Scammells¹, Arthur Christopoulos¹, Bing Wang², Henry Krum², Paul White¹, Lauren May¹, ¹Monash Institute of Pharmacy and Pharmaceutical Sciences, Monash University, Parkville, Victoria, Australia, ²Centre of Cardiovascular Research and Education in Therapeutics, School of Public Health and Preventive Medicine, Monash University, Melbourne, Victoria, Australia
- TU-053 Catestatin modulates adrenergic signaling and reverses the hypertrophic effects of norepinephrine in H9c2 cardiac myoblasts.** Md. Jahangir Alam¹, Nitish R Mahapatra², Shyamal K Goswami¹, ¹School of Life Sciences, Jawaharlal Nehru University, New Delhi, Delhi, India, ²Department of Biotechnology, Bhupat and Jyoti Mehta School of Biosciences, Indian Institute of Technology, Chennai, Madras, India
- TU-054 Protective effect of Aronia melanocarpa on cardiovascular system in L-NAME-induced hypertension.** Martina Cebova¹, Jana Klimentova¹, Andrej Barta¹, Zuzana Matuskova¹, Radoslava Rehakova¹, Michaela Kosutova¹, Olga Pechanova¹, ¹Institute of Normal and Pathological Physiology Slovak Academy of Sciences, Bratislava, Slovakia
- TU-055 Role of NADPH Oxidase-2 under adrenergic stimulation in cardiomyocytes.** Nikhat Saleem¹, Shyamal K Goswami¹, ¹School of Life Sciences, Jawaharlal Nehru University, New Delhi, Delhi, India
- TU-056 Nitro-oleic acid, a component of the mediterranean diet, prevents MKK3- p38α-MAPK; dimer formation by steric obstruction of redox-sensitive cysteines.** Rekha Bassi¹, Joseph Burgoyne¹, Gian de Nicola¹, Olena Rudyk¹, Vittorio de Santis¹, Rebecca Charles¹, Philip Eaton¹, Michael Marber¹, ¹King's College London, London, UK
- TU-057 The adenosine signalosome requires ROS activation to mediate cardioprotection.** Anders O. Garlid¹, Keith D. Garlid², Peipei Ping¹, ¹Departments of Physiology, Medicine, and Bioinformatics, University of California, Los Angeles, Los Angeles, CA, USA, ²Department of Biology, Portland State University, Portland, OR, USA

Cardiac Regeneration/Cell Therapies

- TU-061 Pluripotent stem cell microRNA-294 as a mediator of cardiac proliferative response in the heart after myocardial infarction.** Mohsin Khan¹, Brandon Booth¹, Constantine Troupes², Emily Nickoloff¹, Sadia Mohsin², Cynthia Benedict¹, Steven Houser², Walter Koch¹, Raj Kishore¹, ¹Center for Translational Medicine, Lewis Katz School of Medicine, Temple University, Philadelphia, PA, USA, ²Cardiovascular Research Institute, Lewis Katz School of Medicine, Temple University, Philadelphia, PA, USA
- TU-062 Proliferation of the cardiac precursor cells expressing the Stem Cell Antigen-1 is modulated by activation of the Natriuretic Peptide Receptors.** Stéphanie Rignault-Clerc¹, Christelle Biemann¹, Lucas Liaudet², Bernard Waeber¹, François Feihl¹, Nathalie Rosenblatt-Velin¹, ¹Département de Physiopathologie Clinique Centre Hospitalier Universitaire Vaudois and University of Lausanne, Lausanne, Switzerland, ²Service de Médecine Intensive Adulte CHUV, Lausanne, Switzerland
- TU-064 Enzymatic degradation of 7-Ketocholesterol (7-KC), a new strategy for the treatment of Atherosclerosis.** Irum Perveen¹, ¹Quaid-i-Azam University, Islamabad, Pakistan
- TU-065 Restoration of prostaglandin E2 levels in the mesenchymal stem cells prevents their rejection in the ischemic heart and preserves ventricular function.** Niketa Sareen¹, Ejla Abu-El Rub¹, Glen Lester Sequiera¹, Meenal Moudgil¹, Sanjiv Dhingra¹, ¹Institute of Cardiovascular Sciences, St. Boniface Hospital Research Centre, University of Manitoba, Winnipeg, Canada
- TU-066 Upconversion nanoparticle-mediated photodynamic therapy induces THP-1 macrophage apoptosis and THP-1 macrophage-derived foam cell autophagy via ROS burst.** Liming Yang¹, Zhaoyu Zhong¹, Xing Zhu¹, Jiayuan Kou¹, Xuesong Li¹, Ye Tian^{1,2}, ¹Department of Pathophysiology, Harbin Medical University, Harbin, Heilongjiang Province, China, ²Division of Cardiology, the First Affiliated Hospital, Harbin Medical University, Harbin, Heilongjiang Province, China

- TU-067 Bone marrow mesenchymal stem cells reprogrammed into cardiac progenitor cells by nano-protein transfection bio-unit.** Lin Jiang¹, Xiaohong Li¹, Yueheng Wu¹, Yuliang Feng^{1,2}, Xi-Yong Yu^{1,2}, ¹Medical Research Center of Guangdong General Hospital, Guangdong, China, ²Guangzhou Medical University, Guangdong, China
- TU-068 Beta 2 adrenergic receptor expression and activation of endogenous progenitor cells.** Amanda Finan¹, Morgane Guisiano¹, Patrice Bideaux¹, Marie Demion¹, Jerome Thireau¹, Sylvain Richard¹, ¹INSERM U1046, Montpellier, France
- TU-069 Adult ovine cardiomyocytes express the cell cycle-inhibiting gene *Meis1*. A potential target for cardiac regeneration based on cardiomyocyte division.** Paola Locatelli¹, Carlos Sebastián Giménez¹, Fernanda Daniela Olea¹, Anna Hnatiuk¹, Alberto Crottogini¹, Daniel Ghiringhelli², Mariano Nicolas Belaich², ¹Favaloro University, Buenos Aires, Argentina, ²Quilmes National University, Bernal, Buenos Aires, Argentina
- TU-070 High doses of high mobility group box-1 (HMGB1) protein increase capillary and arteriolar densities and induce overexpression of genes involved in angiogenesis and cell proliferation in ovine infarct border zone.** Fernanda Daniela Olea¹, Maria del Rosario Bauzá¹, Paola Locatelli¹, Carlos Sebastián Giménez¹, Anna Hnatiuk¹, Leonardo Sganga², Luis Cuniberti¹, Alberto Crottogini¹, ¹Favaloro University, Buenos Aires, Argentina, ²Leloir Institute, Buenos Aires, Argentina
- TU-071 P2Y₂ nucleotide receptor prompts human cardiac progenitor cell activation.** Farid Elsayed¹, Steven Greene¹, Jonathan Nguyen¹, Mark Sussman¹, ¹San Diego State University, San Diego, California, USA
- TU-072 Polylactic acid sheets seeded with genetically modified ovine diaphragmatic myoblasts for myocardial regeneration.** Carlos Sebastian Giménez¹, Fernanda Daniela Olea¹, Paola Locatelli¹, Anna Hnatiuk¹, Milagros Pena², Ricardo Dewey², Florencia Montini Ballarin³, Gustavo Abraham³, Alejandro Orłowski⁴, Luis Cuniberti¹, Alberto Crottogini¹, ¹Favaloro University, Buenos Aires, Argentina, ²IIB- INTECH-UNSAM-CONICET, Chascomus, Buenos Aires, Argentina, ³INTEMA-UNMDP-CONICET, Mar del Plata, Buenos Aires, Argentina, ⁴Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina
- TU-073 Rapid stabilisation of atherosclerotic plaque with 5-aminolevulinic acid-mediated sonodynamic therapy.** Ye Tian^{1,2}, ¹Division of Cardiology, the First Affiliated Hospital of Harbin Medical University, Harbin, China, ²Division of Pathophysiology, Harbin Medical University, Harbin, China
- TU-074 Cellular mechanisms of osteogenic differentiation in the development of aortic valve calcification.** Mariia Bogdanova^{1,2}, Katarina Zihlavinikova Enayati¹, Anna Malashicheva², Jarle Vaage^{3,4}, Kåre-Olav Stensløyken¹, Arkady Rutkovskiy^{1,3}, ¹Div. of Physiology, Institute of Basic Medical Sciences, University of Oslo, Oslo, Norway, ²Almazov Federal Heart Centre, Saint Petersburg, Russia, ³Dept. of Emergency and Critical care, Oslo University Hospital, Oslo, Norway, ⁴Institute of Clinical Medicine, University of Oslo, Oslo, Norway
- TU-075 Cortical bone stem cells derived exosomes can promote cardiac repair mechanisms after myocardial injury.** Sadia Mohsin¹, Constantine Troupes¹, Mohsin Khan¹, Timothy Starosta¹, Hajime Kubo¹, Remus Berretta¹, Raj Kishore¹, Steven Houser¹, ¹Temple University, Philadelphia, USA
- TU-076 Detection of serum vascular endothelial growth factor and its clinical significance in lymphoma patients.** Qian Lijuan¹, Zhang Meng², Zhang Qingyun², ¹Zhejiang Cancer Hospital, Hangzhou Zhejiang China, China, ²Peking University School of Oncology, Beijing Cancer Hospital, Haidian District, Beijing, China
- TU-077 Genome-wide siRNA screening identifies cellular genes regulating AAV transduction in the cardiovascular system.** Lorena Zentilin¹, Miguel Mano^{1,2}, Edoardo Schneider¹, Serena Zacchigna¹, Mauro Giacca¹, ¹International Centre for Genetic Engineering and Biotechnology (ICGEB), Trieste, Italy, ²Center for Neuroscience and Cell Biology (CNC) University of Coimbra, Cantanhede, Portugal

Heart Failure & Hypertrophy

- TU-078 Synthetic patches "BASEX" for management of post-infarction aneurysm of heart.** Ramiz Abdulgasanov¹, Alexey Ivanov¹, Sanchez Sebastian¹, Mehriban Abdulgasanova¹, ¹Scientific center of cardiovascular surgery named after A. N. Bakulev, Moscow, Russia
- TU-079 Role of miRNA-33a in dilated cardiomyopathy.** Anupam Mittal^{1,6}, Santanu Rana⁴, Rajni Sharma², Vikas Arige⁵, Sanskriti Khanna², Nitish Mahapatra⁵, Sagartirtha Sarkar⁴, Uma Nahar³, Ajay Bahl¹, Shyamal Goswami⁶, Madhu Khullar², ¹Department of Cardiology, Postgraduate Institute of Medical Education and Research, Chandigarh, India, ²Department of Experimental Medicine and Biotechnology, Postgraduate Institute of Medical Education and Research, Chandigarh, India, ³Department of Histopathology, Postgraduate Institute of Medical Education and Research, Chandigarh, India, ⁴Department of Zoology University of Calcutta, Kolkata, India, ⁵Department of Biotechnology, Indian Institute of Technology, Chennai, India, ⁶School of Life Sciences, Jawahar Lal Nehru University, New Delhi, India
- TU-080 Symptomatic arterial hypertension: modern methods of diagnosis and treatment (results based on examination of 2050 patients).** Ramiz Abulgasanov¹, Alexey Ivanov¹, Sanchez Sebastian¹, Mehriban Abdulgasanova¹, ¹Scientific center of cardiovascular surgery named after A. N. Bakulev, Moscow, Russia
- TU-082 Increased expression of calreticulin in the heart: cardiac fibrosis and heart failure.** Jody Groenendyk¹, ¹University of Alberta, Edmonton, Alberta, Canada, ²McGill University, Montreal, Quebec, Canada
- TU-083 TRPV2 regulates the development of myocyte hypertrophy.** Sheryl Koch¹, Samuel Slone¹, Min Jiang¹, Michael Tranter¹, Jack Rubinstein¹, ¹University of Cincinnati, Cincinnati, OH, USA

POSTER SESSIONS

- TU-084 Normalization of cardiac energy metabolism and left ventricular hypertrophy precede functional recovery in the regression of heart failure.** Nikole J Byrne¹, Jody Levasseur¹, Miranda M Sung¹, Grant Masson¹, Jamie Boisvenue¹, Martin E Young², Jason RB Dyck¹, ¹University of Alberta, Edmonton, Alberta, Canada, ²University of Alabama at Birmingham, Birmingham, Alabama, USA
- TU-085 Genetic background does not affect progression to heart failure in a mouse model with genetic ablation of RyR2-S2808A phosphorylation.** Francisco J. Alvarado¹, Hector H. Valdivia¹, ¹University of Michigan, Ann Arbor, MI, USA
- TU-086 CDK6 mediates the effect of attenuation of miR-1 on provoking cardiomyocyte hypertrophy.** Jie ning Zhu¹, Chun mei Tang¹, Qiu xiong Lin¹, Wen si Zhu¹, Yong heng Fu¹, Chun yu Deng¹, Min Yang¹, Zhi xin Shan¹, ¹Guangdong General Hospital, Guangdong Cardiovascular Institute, Guangdong Academy of Medical Sciences, Guangzhou, Guangdong, China
- TU-087 The interplay between genetic background and sexual dimorphism of doxorubicin-induced cardiotoxicity.** Beshay Zordoky¹, Judith Radin², Lois Heller¹, Anthony Tobias¹, Ilze Matise¹, Fred Apple¹, Sylvia McCune³, Leslie Sharkey¹, ¹University of Minnesota, Minneapolis, MN, USA, ²The Ohio State University, Columbus, OH, USA, ³University of Colorado at Boulder, Boulder, CO, USA
- TU-088 Rnd3/RhoE is a Pro-Angiogenic Factor Regulating Responsive Cardiac Angiogenesis.** Xiaojing Yue¹, Xi Lin¹, Tingli Yang¹, Xiangsheng Yang¹, Xin Yi¹, Keith Youker², Guillermo Torre-Amione², Kelsey Andrade¹, Jiang Chang¹, ¹Texas A&M University Health Science Center, Houston, Texas, USA, ²Methodist DeBakey Heart & Vascular Center, Houston, Texas, USA
- TU-089 Telomeres in cardiac hypertrophy: tails of a broken heart.** Scott Booth¹, Alex Nield¹, Fadi Charchar¹, ¹Federation University Australia, Mt Helen, Victoria, Australia
- TU-090 Improved metabolic function and contractility in mdx mice following treatment with morpholino oligomers.** Victoria Johnstone¹, Helena Viola¹, Abbie Adams³, Steve Wilton^{3,4}, Sue Fletcher^{3,4}, Livia Hool^{1,2}, ¹The University of Western Australia, Crawley, Western Australia, Australia, ²Victor Chang Cardiac Research Institute, Sydney, New South Wales, Australia, ³Centre for Neuromuscular and Neurological Disorders, The University of Western Australia, Crawley, Western Australia, Australia, ⁴Centre for Comparative Genomics, Murdoch University, Murdoch, Western Australia, Australia
- TU-091 Identification of miR-34 regulatory networks in settings of disease and anti-miR-therapy: Implications for treating cardiac pathology and other diseases.** Jenny Y. Y. Ooi¹, Bianca C. Bernardo¹, Saloni Singla¹, Ruby C.Y. Lin^{2,3}, Julie R. McMullen^{1,4}, ¹Baker IDI Heart & Diabetes Institute, Melbourne, Victoria, Australia, ²Asbestos Diseases Research Institute, Sydney, New South Wales, Australia, ³Ramaciotti Centre for Genomics, University of New South Wales, Sydney, New South Wales, Australia, ⁴Monash University, Clayton, Victoria, Australia
- TU-092 Cardiac Thyrotropin Releasing Hormone (TRH) inhibition attenuates the post-ischemic damage and improves ventricular function after myocardial infarction in rats.** Mariano Schuman¹, Ludmila Peres Diaz¹, Maia Aisicovich¹, Fernando Ingallina¹, Silvina Landa¹, Silvia García¹, ¹Laboratory of Molecular Cardiology, Institute of Medical Research A. Lanari, UBA; IDIM-CONICET, Buenos Aires, Argentina
- TU-094 Guanylyl Cyclase-A signaling attenuates deleterious salt effect on aldosterone-induced cardiac remodeling.** Hitoshi Nakagawa¹, Satoshi Somekawa¹, Yasuki Nakada¹, Tomoya Nakano¹, Takuya Kumazawa¹, Kenji Onoue¹, Hiroyuki Okura¹, Yoshihiko Saito¹, ¹Nara Medical University, Nara, Japan
- TU-095 The role of fibroblast and endothelial cell NADPH oxidase-2 in the development of cardiac fibrosis.** Daniel Richards¹, Craig Harrison¹, Greta Sawyer¹, Heloise Mongue-Din¹, Stephanie Telerman², Fiona Watt², Ajay Shah¹, ¹King's College London - BHF Centre of Excellence, London, UK, ²King's College London - Centre for Stem Cells & Regenerative Medicine, London, UK
- TU-096 NADPH oxidase-4 mediates cardiac adaptation to volume overload.** Moritz Schnelle^{1,2}, Karl Toischer², Norman Catibog¹, Min Zhang¹, Katrin Schröder³, Ralf Brandes³, Gerd Hasenfuss², Ajay Shah¹, ¹King's College London BHF Centre, London, UK, ²Goettingen Heart Centre, Goettingen, Germany, ³Institut für Kardiovaskuläre Physiologie, Goethe-Universität, Frankfurt am Main, Germany
- TU-097 Structural and functional changes in the murine heart during sustained β -adrenergic stimulation in vivo.** Sarah-Lena Puhl¹, Kate Weeks¹, Antonella Ranieri¹, Metin Avkiran¹, ¹King's College London, London, UK
- TU-098 Distinct roles of intracellular calcium release channels in cardiac and vascular remodeling.** Gaetano Santulli¹, Qi Yuan¹, Steven Reiken¹, Jingyi Yang¹, Alain Lacampagne^{1,2}, Andrew Marks¹, ¹Columbia University, New York, NY, USA, ²Montpellier University, Montpellier, France
- TU-099 Inhibition of Rho Kinase (ROCK) restores ionic currents and prevents electrical remodeling of heart in pressure overload induced hypertrophy model.** Murat Cenk Celen¹, Bilge Eren Yamasan¹, Yusuf Olgar², Semir Ozdemir¹, ¹Akdeniz University, Antalya, Turkey, ²Ankara University, Ankara, Turkey
- TU-100 Restrictive cardiomyopathy mutation Tnl-R145W blocks PKA-PKC cross-modulation of human myofilament length dependent activation and relaxation kinetics.** Alexey Dvornikov¹, Nikolai Smolin¹, Mengjie Zhang¹, Jody Martin¹, Seth Robia¹, Pieter de Tombe⁰, ¹Loyola University Chicago, Maywood IL, USA
- TU-101 PGE2-dependent epigenetic pathways in inflammatory cardiomyopathies.** Richard Schell^{1,2}, Florian Leuschner¹, Andras Toth², Hugo A. Katus¹, Johannes Backs², ¹University Hospital - Department of Cardiology, Angiology and Pneumology, Heidelberg, Germany, ²University Hospital - Department Molecular Cardiology

and Epigenetics, Heidelberg, Germany

TU-102 Effects of a Selective Class I HDAC inhibitor on cardiac remodeling in mouse TAC. Kersten Small¹, Joseph McCarthy², Shu Yu Sun¹, Mark Aronovitz², Richard Karas², Jeffrey Madwed¹, Robert Blanton², ¹Merck Research Labs, Kenilworth, NJ, USA, ²Tufts Medical School, Boston, MA, USA

TU-103 Direct AMPK Activation Fails to Improve Cardiac Structure and Function in Mouse Pressure-Overload Heart Failure Model. Kersten Small¹, Jessica Bradley², Traci Goodchild², Craig Zilblich², Juliann Ehrhart¹, Shu Yu Sun¹, Iyassu Sebhat¹, Jeffrey Madwed¹, David Lefer², ¹Merck Research Labs, Kenilworth, NJ, USA, ²Louisiana State University, New Orleans, LA, USA

WEDNESDAY, April 20, 1:00-3:00 PM

Heart Failure & Hypertrophy

WE-001 The transactivation activity of glucocorticoid receptor plays a key role in protecting heart against stress and that is suppressed under pressure-overload. Motoaki Sano¹, ¹Keio University School of Medicine, Tokyo, Japan

WE-002 Gentianella acuta Improves Cardiac Function in a Model of Coronary Ligation Induced Heart Failure via a Mechanism of Against Endoplasmic Reticulum Stress-Associated Autophagy. Yu Liu¹, Aiying Li¹, ¹Hebei University of Chinese Medicine, Shijiazhuang, Hebei, China

WE-003 Gentianella acuta prevents isoprenaline-induced myocardial fibrosis in rat by reduction of myocardial TGF-β1/ CTGF expression. Aiying Li¹, Ensheng Ji², Jingjing Wang², ¹Department of Biochemistry, Hebei University of Chinese Medicine, Shijiazhuang, Hebei, China, ²Department of Physiology, Hebei University of Chinese Medicine, Shijiazhuang, Hebei, China

WE-004 Phosphodiesterase 3A1 Prevents Cardiac Remodeling from Neurohormonal Activation. Masayoshi Oikawa¹, Shoji Iwaya¹, Shu-ichi Saitoh¹, Yasuchika Takeishi¹, ¹Fukushima Medical University, Department of Cardiology and Hematology, Fukushima, Japan

WE-005 Angiotensin-converting enzyme inhibitor-induced cough prevalence in Resistant Hypertension Patients. André Nascimento Publio Pereira¹, Adilson Machado Gomes Junior¹, Camila Barbosa Pereira¹, Paulo Chenaud Neto¹, Thiago Matos e Silva¹, André Oliveira Barbosa¹, Cristiano Ricardo Bastos de Macedo¹, Roque Aras Júnior¹, ¹Federal University of Bahia, Salvador, Bahia, Brazil

WE-006 Inhibition of class I histone deacetylases blunts cardiac hypertrophy via TSC2-dependent mTOR repression. Cyndi Morales¹, Dan Li¹, Zully Pedrozo², Herman I. May¹, Nan Jiang¹, Viktoriia Kyrychenko¹, Geoffrey Cho¹, Julia Kim¹, David Rotter¹, Beverly A. Rothermel¹, Jay W. Schneider¹, Sergio Lavandero², Thomas G. Gillette¹, Joseph A. Hill¹, ¹Department of Internal Medicine, UT Southwestern Medical Center, Dallas, TX, USA, ²Facultad Ciencias Químicas y Farmacéuticas & Facultad Medicina, Universidad de Chile, Santiago, Chile

WE-007 Myosin activator improves actin assembly and sarcomere function of human induced pluripotent stem cell-derived cardiomyocytes with a troponin T point mutation. Kathleen Broughton¹, Elina Sarmah¹, Jieli Li¹, Chad Warren¹, Ying-Hsi Lin¹, Marcus Henze¹, Vero Sanchez-Freire², R. John Solaro¹, Brenda Russell¹, ¹University of Illinois at Chicago, Chicago, IL, USA, ²Stanford University, Stanford, CA, USA

WE-008 Identification of calpastatin as a novel substrate of p38gamma mitogen activated protein kinase. Aminah Loonat¹, Eva Denise Martin¹, Sang Hoon Choi¹, Francesca Hunt¹, Nicholas T Hertz², Rebecca Levin², Kevan Shokat², Alma L Burlingame², Michael S Marber¹, James E Clark¹, ¹King's College London, London, UK, ²University of California, San Francisco, USA

WE-009 Increased activity of AMP deaminase by decreased interaction with PGM1 and depletion of F1,6P: a novel mechanism of diabetic cardiomyopathy. Yuki Tatekoshi¹, Masaya Tanno¹, Hidemichi Kouzu¹, Atsushi Kuno², Satoko Ishikawa¹, Toshiyuki Yano¹, Wataru Ohwada¹, Kei Nakata¹, Keitaro Nishizawa¹, Takayuki Miki¹, Tetsuji Miura¹, ¹Department of Cardiovascular, Renal and Metabolic Medicine, Sapporo Medical University, Sapporo, Japan, ²Department of Pharmacology, Sapporo Medical University, Sapporo, Japan

WE-010 Angiogenesis in patients with angiographically significant coronary artery diseases and chronic heart failure: endothelial progenitor cells, growth factors and cytokines. Karina Khmel'nitskaya^{1,2}, Eugeni Shlyakhto^{1,2}, ¹First Pavlov State Medical University, Saint-Petersburg, Russia, ²Almazov Federal Medical Research Centre, Saint-Petersburg, Russia

WE-011 Effects of phosphodiesterase-5 A (PDE5A) inhibition on the hypertrophied myocardium of spontaneously hypertensive rats (SHR). Daiana Sabrina Escudero¹, Romina Gisel Díaz¹, Maria Soledad Brea¹, Enrique Leo Portiansky², Néstor Gustavo Pérez¹, ¹Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina, ²Laboratorio de Análisis de Imágenes del Instituto de Patología, La Plata, Argentina

WE-012 Cardiomyocyte high Ca²⁺ operational levels linked with arrhythmogenic vulnerability in a rat model of hypertrophic heart failure with preserved ejection fraction. James Bell¹, Claire Curl¹, Antonia Raaijmakers¹, Wendy Ip¹, Chanchal Chandramouli¹, Tristan Harding¹, Kimberley Mellor^{2,1}, Stephen Harrap¹, Lea Delbridge¹, ¹University of Melbourne, Melbourne, Australia, ²University of Auckland, Auckland, New Zealand

POSTER SESSIONS

- WE-013 Alda-1 improves cardiac function in the heart failure mice carrying human aldehyde dehydrogenase 2 E487K variant.** Vanessa Lima¹, Ivson Silva¹, Cintia Ueta¹, Rafael Dariolli², Leonardo Jensen², José Eduardo Krieger², Maria Cláudia Irigoyen², Julio Ferreira¹, ¹*Institute of biomedical science, University of Sao Paulo, Sao Paulo, SP, Brazil*, ²*Heart Institute, University of Sao Paulo, Sao Paulo, SP, Brazil*
- WE-014 Arterial hypertension due to adrenal pheochromocytoma: modern methods of diagnosis and treatment.** Ramiz Abdulgasanov¹, Sanchez Sebastian¹, Alexey Ivanov¹, Mehriban Abdulgasanova¹, Aslan Ordokov¹, ¹*Scientific center of cardiovascular surgery named after A. N. Bakulev, Moscow, Russia*
- WE-015 Arterial hypertension due to primary hyperaldosteronism: modern methods of diagnosis and treatment.** Ramiz Abdulgasanov¹, Alexey Ivanov¹, Sanchez Sebastian¹, Mehriban Abdulgasanova¹, Aslan Ordokov¹, ¹*Scientific center of cardiovascular surgery named after A. N. Bakulev, Moscow, Russia*
- WE-017 Arterial hypertension due to renal parenchymal lesions (diagnosis and treatment).** Ramiz Abdulgasanov¹, Sanchez Sebastian¹, Alexey Ivanov¹, Mehriban Abdulgasanova¹, Aslan Ordokov¹, ¹*Scientific center of cardiovascular surgery named after A. N. Bakulev, Moscow, Russia*
- WE-018 Cardiac anti-fibrotic effects of direct AT2 and Mas receptor stimulation in stroke-prone spontaneously hypertensive rats.** Dhaniel Baraldi¹, ¹*Monash University, Melbourne, Victoria, Australia*
- WE-019 A simplified, Langendorff-free method for concomitant isolation of viable cardiac myocytes and fibroblasts from the adult mouse heart.** Matthew Ackers-Johnson^{1,2}, Peter Li², Roger Foo^{1,2}, ¹*Genome Institute of Singapore, Singapore, Singapore*, ²*National University of Singapore, Singapore, Singapore*
- WE-020 Study of a possible paracrine communication between cardiac fibroblasts and myocytes induced by Galectin-3.** Mario Bustamante^{1,3}, Ingrid Oyarún^{1,3}, Georhan Mancilla^{1,3}, Clara Quiroga^{1,3}, Hugo E. Verdejo^{1,3}, Sergio Lavandero^{2,3}, Pablo Castro^{1,3}, ¹*Lab. de Señalización Cardiovascular, División de Enfermedades Cardiovasculares, Facultad de Medicina, Pontificia Universidad Católica de Chile, Santiago, Chile*, ²*Lab. de Transducción de Señales Moleculares, Facultad de Cs. Químicas y Farmacéuticas, Universidad de Chile, Santiago, Chile*, ³*Advanced Center for Chronic Diseases (ACCDiS), Universidad de Chile & Pontificia Universidad Católica de Chile, Santiago, Chile*
- WE-021 Identification of emerging micro-RNA markers for heart failure development.** Georhan Mancilla^{1,2}, Ingrid Oyarzún^{1,2}, Rocio Artigas², Ignacio Wichmann², Alejandro Corvalan², Clara Quiroga^{1,2}, Hugo Verdejo^{1,2}, Pablo Castro^{1,2}, ¹*Lab. de Señalización Cardiovascular, División de Enfermedades Cardiovasculares, Facultad de Medicina, PUC, Santiago, Chile*, ²*Advanced Center for Chronic Diseases (ACCDiS), Universidad de Chile & Pontificia Universidad Católica de Chile, Santiago, Chile*
- WE-022 Role of Carbonic Anhydrase IX and Hypoxia-Inducible Factor 1 in infarcted rat heart.** Mariela Nolly¹, Andrés Pinilla¹, Juliana Fantinelli¹, Patricio Morgan¹, ¹*Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina*
- WE-023 The cMyBP-C E258K HCM-causing mutation does not affect mRNA splicing.** Willem De Lange¹, Nicole Bednarz¹, Richard Moss¹, Carter Ralph¹, ¹*University of Wisconsin, Madison, Wisconsin, USA*
- WE-024 Neuregulin-1 modulates doxorubicin cardiotoxicity in mouse.** Marina Bonanno¹, Abigail Perez Abraham¹, Agustín Rizzo¹, Hernán García Rivello¹, Cecilia M. Hertig¹, ¹*INGEBI, Buenos Aires, Argentina*
- WE-025 2-deoxy-ATP enhances multiple kinetic parameters to improve cardiac function.** Ivan Tomasic¹, Marcus Henze¹, Ferdinand Evangelista¹, Anu Anto¹, Hector Rodriguez¹, Sadie Bartholomew Ingle¹, ¹*MyoKardia, Inc., South San Francisco, CA, USA*

Ischemia/Reperfusion Injury

- WE-026 Frailty, not age, predicts age-dependent cardiac contractile dysfunction under basal and ischemic conditions in Langendorff-perfused hearts from C57BL/6J mice.** Hirad Feridooni¹, Arash Boroumandi², Nazari Polidovitch³, Robert Rose¹, Robert Tsushima², Susan Howlett¹, ¹*Dalhousie University, Halifax, Canada*, ²*York University, Toronto, Canada*, ³*University of Toronto, Toronto, Canada*
- WE-027 RIP3 Mediates ischemia- and oxidative stress-induced myocardial necroptosis via CaMKII/mPTP signalling pathway.** Yan Zhang¹, Ting Zhang¹, Rui-Ping Xiao^{1,2}, ¹*Institute of Molecular Medicine, Peking University; State Key Laboratory of Biomembrane and Membrane Biotechnology, Peking University, Beijing, China*, ²*Peking-Tsinghua Center for Life Sciences, Peking University; Beijing City Key Laboratory of Cardiometabolic Molecular Medicine, Peking University, Beijing, China*
- WE-028 Cardiac-protection of acetylcholine on ischemia/reperfusion injury via regulation of TNF- α /TNFR1/2 signal pathway.** Dong-Ling Li¹, Jin-Jun Liu¹, Xiao-Jiang Yu¹, Wei-Jin Zang¹, ¹*Department of Pharmacology, Health Science Center, Xi'an Jiaotong University, Xi'an city, Shaanxi Province, China*
- WE-029 Acute hyperglycemia abolishes cardioprotection by remote ischemic preconditioning.** Tamás Baranyai¹, Csilla Terézia Nagy¹, Gábor Koncsos¹, Zsófia Onódi¹, András Makkos¹, Zoltán V. Varga¹, Péter Ferdinandy^{1,2}, Zoltán Giricz^{1,2}, ¹*Department of Pharmacology and Pharmacotherapy, Semmelweis University, Budapest, Hungary*, ²*Pharmahungary Group, Szeged, Hungary*
- WE-030 LPTM4b protects hearts from ischemia/reperfusion injury by promoting autophagy flux.** Shan-Shan Gu¹, Jin-Long Liu¹, Ji-Liang Tan¹, Yan-Jun Zheng¹, Xu-Xia Li¹, Qiang Li¹, Huang-Tian Yang¹, ¹*Institute of Health Sciences, Shanghai Institutes for Biological Sciences (SIBS), Chinese Academy of Sciences & Shanghai Jiao Tong University School of Medicine, Shanghai, China*

- WE-031 The role of calcium-sensing receptors and spermine in hypoxia-induced pulmonary vascular remodeling and the mechanism.** Can Wei¹, Xue Peng¹, Guangwei Li¹, Changqing Xu¹, ¹Harbin Medical University, Harbin, China
- WE-032 Exogenous H₂S contributes to recovery of ischemic post-conditioning-induced cardioprotection in the aging rat and cardiomyocytes and the related mechanism.** Hongzhu Li¹, Weiming Sun¹, Lina Li¹, Changqing Xu¹, ¹Harbin Medical University, Harbin, China
- WE-033 Cardiomyocyte-specific Runx1 deficiency protects the heart from ischemia-reperfusion injury *in vivo*.** Ashley Cochrane¹, Weihong He¹, Charlotte McCarroll¹, Peter Bowman¹, Stuart Nicklin¹, Ewan Cameron², Christopher Loughrey¹, ¹Glasgow Cardiovascular Research Centre, Institute of Cardiovascular and Medical Sciences, College of Medical, Veterinary and Life Sciences, University of Glasgow, Glasgow, UK, ²School of Veterinary Medicine, College of Medical, Veterinary and Life Sciences, University of Glasgow, Garscube Campus, Bearsden Road, Glasgow, UK
- WE-034 Simultaneous ultrasound diagnosis and treatment of thrombosis using activated platelet targeted theranostic microbubbles.** Xiaowei Wang^{1,2}, Yannik Gkanatsas¹, Jathushan Palasubramaniam¹, Jan David Hohmann¹, Christoph Hagemeyer², Karlheinz Peter^{1,2}, ¹Baker IDI Heart and Diabetes Institute, Melbourne, Australia, ²Monash University, Melbourne, Australia
- WE-035 Acetylcholine to improve calcium dyshomeostasis in cardiovascular disease: attenuated er-pm contacts.** Ming Zhao¹, Long-Zhu Liu¹, Yi Lu¹, Xi He¹, Hang-Huan Jia¹, Xiao-jiang Yu¹, Man Xu¹, Dong-Ling Li¹, Wei-jin Zang¹, ¹Department of Pharmacology, Xi'an Jiaotong University Health Science Center, Xi'an, China
- WE-036 Dopamine D2 receptors is involved in the cardioprotection of ischemic post-conditioning in rat by activating autophagy.** Can Wei¹, Hong Li¹, Hongzhu Li¹, Changqing Xu¹, ¹Harbin Medical University, Harbin, China
- WE-037 Extracellular RNA induces ischemia/reperfusion injury by Tumor Necrosis Factor (TNF- α) – Shedding: The role of TNF-receptor 1.** Hector Cabrera-Fuentes^{1,2}, Sandrine Lecour³, Marisol Ruiz-Meana⁴, David Garcia-Dorado⁴, Klaus Schlüter⁵, Derek Hausenloy², Klaus Preissner¹, ¹Institute of Biochemistry, Medical School, Justus-Liebig-University, Giessen, Germany, ²Cardiovascular & Metabolic Diseases Program, Duke-NUS Graduate Medical School, Singapore, Singapore, ³Hatter Institute for Cardiovascular Research, University of Cape Town, Cape Town, South Africa, ⁴Hospital Universitari Vall d'Hebron, Laboratorio de Cardiología Experimental, Barcelona, Spain, ⁵Institute of Physiology, Medical School, Justus-Liebig-University, Giessen, Germany
- WE-038 Endogenous annexin-A1 is cardioprotective against myocardial infarction in mice *in vivo*.** Cheng Xue Qin^{1,2}, Siobhan B Finlayson^{1,3}, Sarah Rosli¹, Colleen J Thomas³, Annas Al-Sharea¹, Andrew Murphy¹, Helen Kiriazis¹, Yuan H Yang⁴, Eric F Morand⁴, Xiao-Jun Du¹, Xiaoming Gao¹, Rebecca H Ritchie^{1,2}, ¹Baker IDI Heart and Diabetes Institute, Melbourne, Australia, ²Department of Pharmacology, University of Melbourne, Melbourne, Australia, ³La Trobe University, Bundoora, Australia, ⁴Centre for Inflammatory Diseases, Monash University, Clayton, Australia
- WE-039 HAX-1 regulates contractile recovery after ischemia/reperfusion injury by preventing SERCA2a degradation.** Philip Bidwell¹, Guan-Sheng Liu¹, Chi Keung Lam¹, Jack Rubinstein¹, Evangelia Kranias¹, ¹University of Cincinnati, Cincinnati, OH, USA
- WE-040 Adenosine A₂ receptor biased agonism in cardiac ischemia-reperfusion injury.** Jo-Anne Baltos¹, Chung Chuo¹, Andrew Kompa¹, Manuela Jorg¹, Henry Krum¹, Arthur Christopoulos¹, Peter Scammells¹, Paul White¹, Lauren May¹, ¹Monash University, Melbourne, Victoria, Australia
- WE-041 Deletion of the NADPH oxidase organizing protein NoxO1 promotes angiogenesis.** Katrin Schröder¹, Sabine Harenkamp¹, Jeremy Epah¹, Christoph Schürmann¹, Juri Vogel¹, Beliza Rashid¹, Flavia Rezende¹, Ralf P. Brandes¹, ¹Goethe University, Frankfurt am Main, Germany
- WE-042 Cardioprotective reperfusion strategies improve cardiac recovery after global, warm ischemia in an isolated working rat heart model of donation after circulatory death.** Emilie Farine¹, Petra Niederberger¹, Rahel Wyss¹, Natalia Méndez Carmona¹, Thierry Carrel¹, Hendrik Tevaearai Stahel¹, Sarah Longnus¹, ¹Clinic of Cardiovascular Surgery, Inselspital, Bern University Hospital, University of Bern, Berne, Switzerland
- WE-043 High circulating fatty acids prior to warm ischemia decrease cardiac recovery in an isolated rat heart model of donation after circulatory death.** Petra Niederberger¹, Emilie Farine¹, Maria Arnold¹, Rahel Wyss¹, Natalia Méndez Carmona¹, Thierry Carrel¹, Hendrik Tevaearai Stahel¹, Sarah Longnus¹, ¹Clinic of Cardiovascular Surgery, Inselspital, Bern University Hospital, University of Bern, CH-3010 Bern, Switzerland
- WE-044 T185-Study and characterization of p38MAPK's key residue involved in Ischaemic Heart Disease.** Dibesh Thapa¹, Denise Eva Martin¹, Gian De Nicola¹, Michael Marber¹, ¹Kings College London, London, UK
- WE-045 The inhibition of proteasomes prevents Mitofusin 2 and Miro 1 degradation in cardiomyocytes during ischemia –reperfusion.** Ivonne Olmedo¹, Gonzalo Pino¹, Cecilia Anríquez¹, Zully Pedrozo^{1,2}, Paulina Donoso¹, Gina Sánchez¹, ¹Instituto de Ciencias Biomédicas, Facultad de Medicina, Universidad de Chile, Santiago, Chile, ²Advanced Center for Chronic Diseases, Facultad de Medicina, Universidad de Chile, Santiago, Chile
- WE-046 The new St Thomas' Hospital polarized cardioplegia shows non-inferiority and improved efficacy of myocardial protection in pigs undergoing cardiopulmonary bypass compared to St. Thomas' 2 cardioplegia.** Felix Nagel¹, David Santer¹, Anne Kramer¹, Attila Kiss¹, Wolfgang Dietl¹, Karola Trescher¹, Klaus Aumayr³, Seth Hallström², Hazem Fallouh⁴, David J Chambers⁴, Bruno K Podesser¹, ¹Ludwig Boltzmann Cluster for Cardiovascular Research, Department for Biomedical Research, Medical University of Vienna, Vienna, Austria, ²Institute of Physiological Chemistry, Center for Physiological Medicine, Medical University of

POSTER SESSIONS

Graz, Graz, Austria,³Clinical Institute for Pathology, AKH Wien, Medical University of Vienna, Vienna, Austria,
⁴Cardiac Surgical Research, The Rayne Institute (King's College London), Guy's and St Thomas' NHS
 Foundation Trust, St Thomas' Hospital, London, UK

WE-047 Quantitative assay of microvascular hyper-permeability following cardiac ischemia-reperfusion. Li-Ping Han^{1,2}, Xiao-Ming Gao², Xiao-Lei Mao², Yi-Dan Su², Xiao-Jun Du², ¹Wenzhou Medical College, Wenzhou, Zhejiang, China, ²Baker IDI Heart and Diabetes Institute, Melbourne, Victoria, Australia

WE-048 Effects of hydrogen sulphide (H₂S) on oxidative stress in acute myocardial ischemia injury in isolated hearts in rats. Zhang Jianxin¹, Liu Fang¹, Li Lanfang¹, Zhang Qinzeng¹, Xie Lijun¹, ¹Hebei Academy of Medical Sciences, Shijiazhuang, Hebei, China

WE-049 Effects of Simvastatin on the expression of P47phox in renal ischemia reperfusion injury. Xiao-hong Xia¹, Jiao Jing¹, Li-jing Niu¹, Yan-ling Wang¹, Zhi-hui Zhi-hui Miao¹, ¹Hebei Academy of Medical Sciences, Shijiazhuang, China

Contractility & Mechanics

WE-061 A pathogenic MYBPC3 25-bp polymorphic variant causes hypertrophic cardiomyopathy in South Asian descendants. Sakthivel Sadayappan⁰, ¹Loyola University Chicago, Maywood, IL 60153, USA

WE-062 Lack of essential myosin light chain phosphorylation impairs cardiac ability to adapt to augmented physical demand. Selina Hein¹, Lisa Scheid², Matias Mosqueira², Mandy Kossack¹, Benjamin Meder¹, Rainer Fink², David Hassel¹, ¹Heidelberg University Hospital, Heidelberg, Germany, ²Heidelberg University, Heidelberg, Germany

WE-063 CYP2C19 and PON1 genetic variants as potential predictors for the risk of bleeding in antiplatelet-treated patients. Yu Zhang¹, Mengzhen Zhang², Zhoucuo Qi², Qiuxiong Lin², Bin Zhang³, Jiyan Chen³, Shilong Zhong^{2,3}, ¹School of Pharmaceutical Sciences, Guangzhou Medical University, Guangzhou, Guangdong, China, ²Medical Research Center, Guangdong General Hospital, Guangzhou, Guangdong, China, ³Guangdong Cardiovascular Institute, Guangdong Academy of Medical Sciences, Guangzhou, Guangdong, China

WE-064 ADP-stimulated contraction: a predictor of thin-filament activation in cardiac disease. Vasco Sequeira¹, Aref Najafi¹, Paul J.M. Wijnker¹, Cris dos Remedios², Michelle Michels³, Diederik W.D. Kuster¹, Jolanda van der Velden¹, ¹VU University Medical Center, Amsterdam, The Netherlands, ²Muscle Research Unit, Bosch Institute, University of Sydney; Anderson Stuart Building (F13), Sydney, Australia, ³Cardiology, Erasmus Medical Center, Rotterdam, The Netherlands

WE-065 Cross-bridge dynamics is determined by two velocity dependent kinetics; implications on the adaptive and synchronous cardiac function. Daria Amiad Pavlov¹, Michal Horowitz², Amir Landesberg¹, ¹Faculty of Biomedical Engineering, Technion IIT, Haifa, Israel, ²Faculty of medicine, the Hebrew University, Jerusalem, Israel

WE-066 The functional association between the sodium/bicarbonate cotransporter and the soluble adenylate cyclase (sAC) modulates basal cardiac contractility. María Sofía Espejo¹, María Carolina Ciancio¹, Alejandro Orlowski¹, Ernesto Alejandro Aiello¹, Verónica Celeste De Giusti¹, ¹Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina

WE-067 Proteomic analysis of excitation-contraction coupling abnormalities in a rat model of heart failure with preserved ejection fraction. Daniel Soetkamp¹, Romain Gallet¹, Ronald Holeywinski¹, Vidya Venkatraman¹, Xin Yue¹, Rui Zhang¹, Eduardo Marbán¹, Joshua I. Goldhaber¹, Jennifer E. Van Eyk¹, ¹Cedars-Sinai Medical Center, Los Angeles, CA, USA

WE-068 Insulin treatment did not prevent cardiac and baroreflex dysfunctions in a model of type 1 diabetes. Sarah Cristina Ferreira Freitas¹, Iris Callado Sanches³, Jacqueline Freire Machi², Paulo Magno Martins Dourado², Maria Claudia Irigoyen², Kátia De Angelis¹, ¹Universidade Nove de Julho, São Paulo, Brazil, ²Heart Institute Hospital, São Paulo, Brazil, ³São Judas Tadeu University, São Paulo, Brazil

WE-069 Nitric oxide and CaMKII: critical steps in the inotropic response to IGF-1. Juan Ignacio Burgos¹, Alejandra Yeves¹, Irene Ennis¹, Martín Vila Petroff¹, ¹Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina

WE-070 oxiCaMKII-dependent RyR2 phosphorylation mediates contractile dysfunction associated with sepsis. Marisa Sepúlveda¹, Luis Gonano¹, Manuel Viotti¹, Micaela López Alarcón², Isalira Ramos², Adriana Bastos Carvalho², Emiliano Medei², Martín Vila Petroff¹, ¹Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina, ²Universidade Federal do Rio de Janeiro Centro de Ciencias da Saúde Instituto de Biofísica Carlos Chagas Filho, Rio de Janeiro, Brazil

WE-071 Silencing of the epidermal growth factor receptor (EGFR) blunts the slow force response to myocardial stretch. María Soledad Brea¹, Romina Gisel Díaz¹, Patricio Eduardo Morgan¹, Claudia Irma Caldiz¹, Néstor Gustavo Pérez¹, ¹Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina

WE-072 Thioredoxin 1 (TRX1) overexpression cancels the slow force response (SFR) development. Maite R Zavalá¹, Romina G Díaz¹, Martín Donato², Ricardo J Gelpi², María C Villa-Abrille¹, Néstor G Pérez¹, ¹Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina, ²Instituto de Fisiopatología Cardiovascular, Universidad de Buenos Aires, Buenos Aires, Argentina

WE-073 Dynamic resistance exercise training induces skeletal muscle and cardiac hypertrophy and improves

baroreflex sensitivity in female hypertensive rats. Amanda Araujo¹, Nathalia Bernardes^{2,1}, Danielle Dias¹, Tafne Mello¹, Maria Claudia Irigoyen², Kátia De Angelis¹, ¹Laboratory of Translational Physiology, Universidade Nove de Julho (UNINOVE), Sao Paulo, SP, Brazil, ²Hypertension Unit, Heart Institute (InCor), School of Medicine, University of Sao Paulo, Sao Paulo, SP, Brazil

WE-074 Effect of aging on heart function and calcium handling: impact of NOX inhibition. Alvaro Valdes¹, Guillermo Barrios¹, Nikol Ponce¹, Daniel Gonzalez¹, ¹Universidad de Talca, Talca, Chile

WE-075 Mechanisms of sex-difference in serotonergic and α_1 -adrenergic vasoconstriction in the internal mammary artery of patients going through coronary artery bypass graft. Victor Lamin¹, Amenah Jaghoori¹, Michael Worthington², James Edwards², Fabiano Viana², Robert Stuklis², David Wilson¹, John Beltrame¹, ¹School of Medicine, The University of Adelaide, Adelaide, South Australia, Australia, ²Cardiothoracic Surgical Unit, The Royal Adelaide Hospital, Adelaide, South Australia, Australia

WE-076 The Effects of sildenafil, Phosphodiesterase 5 inhibitor, on the expression of α and β myosin heavy chains in hypoxia induced right ventricular hypertrophy in mice. Said Khatib¹, Mukhallad Al-Jinabi², Nayaf Gharaibeh², Anwar Alkhayat², ¹Faculty of Medicine, King Fahad Medical City, Riyadh, Saudi Arabia, ²Faculty of Medicine, Jordan University of Science and Technology, Irbid, Jordan

WE-077 Bisphenol S depresses myocardial function through an estrogen receptor- β -dependent cascade. Melissa Ferguson¹, W. Glen Pyle¹, ¹Centre for Cardiovascular Investigations, Department of Biomedical Sciences, University of Guelph, Guelph, Ontario, Canada

EC Coupling

WE-078 Sarcoplasmic reticulum (SR) calcium transport in atrial myocytes isolated from healthy human hearts. Jair Trapé Goulart¹, Orlando Petrucci², Karlos Alexandre de Souza Vilarinho², Felipe Augusto da Silva Souza², Pedro Paulo Martins de Oliveira², Lindemberg Mota Silveira-Filho², José Wilson Magalhães Bassani^{1,3}, Rosana Almada Bassani³, ¹Department of Biomedical Engineering, School of Electrical and Computer Engineering, University of Campinas, Campinas, SP, Brazil, ²Department of Surgery, Faculty of Medical Sciences, University of Campinas, Campinas, SP, Brazil, ³Center for Biomedical Engineering, University of Campinas, Campinas, SP, Brazil

WE-079 Endothelial ATP-binding cassette G1 in mouse endothelium protects against hemodynamic-induced atherosclerosis. Jinlong He¹, Jiaxing Wang², Xu Zhang¹, Wei Pang², Ding Ai¹, Yi Zhu^{1,2}, ¹Tianjin Medical University, Tianjin, China, ²Peking University Health Science Center, Beijing, China

WE-080 High-throughput screens to discover inhibitors of leaky ryanodine receptor calcium channels. Robyn Rebbeck¹, Maram Essawy¹, Florentin Nitu¹, David Thomas¹, Donald Bers¹, Razvan Cornea¹, ¹University of Minnesota, Minneapolis, Mn, USA, ²University of California, Davis, California, USA

WE-081 Functional crosstalk of RyR2 and InsP₃R2 mediated SR-Ca²⁺ release in atrial cardiomyocytes. Marcel Wulschlegler¹, Marcel Egger¹, ¹Physiology, UniBE, Bern, Switzerland

WE-082 Influence of ACE inhibitors on frailty and cardiac function in middle-aged female C57BL/6 mice. Kaitlyn Keller¹, Susan Howlett¹, ¹Dalhousie University, Halifax, Nova Scotia, Canada

WE-083 Chronic testosterone withdrawal modifies cardiac contraction and calcium homeostasis in ventricular myocytes isolated from gonadectomized C57BL/6 male mice. Omar Ayaz¹, Robert Rose¹, Susan Howlett¹, ¹Dalhousie University, Halifax, Canada

WE-084 Force-frequency relationship in rat ventricular myocytes; elucidating the intracellular mechanisms. Verónica De Giusti¹, Ignacio Aiello¹, María Sofía Espejo¹, María Carolina Ciancio¹, Ernesto Alejandro Aiello¹, ¹Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina

WE-085 RyR2 haploinsufficiency in a rabbit model is compensated by fine-tuning channel activity. Francisco J. Alvarado¹, Jonathan Hernandez¹, Y. Eugene Chen¹, Hector H. Valdivia¹, ¹University of Michigan, Ann Arbor, MI, USA

Electrophysiology/Arrhythmias

WE-086 Thyroid stimulating hormone can directly modulates the cardiac electrical activity. Julieta Fernandez Ruocco¹, Hiart Alonso², Gallego Monica², Layse Malagueta Vieira³, Ainhua Rodriguez De Yurre^{1,2}, Oscar Casis², Emiliano Medei¹, ¹Carlos Chagas Filho Biophysical Institute, Federal University of Rio de Janeiro (UFRJ), Rio de Janeiro/Rio de Janeiro, Brazil, ²Departament of Physiology, Pais Vasco University (UPV/EHU), Pais Vasco, Spain, ³Department of Biophysics and Radiobiology, Federal University of Pernambuco, Recife, Brazil

WE-087 miR-19b deficiency impairs cardiac repolarization in zebrafish. Alexander Benz¹, Dominik Auth¹, Claudia Seyler¹, Edgar Zitron¹, Hugo A. Katus¹, David Hassel¹, ¹Department of Medicine III, Cardiology, Heidelberg University Hospital, Heidelberg, Germany

WE-088 Early intravenous low/high doses of Metoprolol in myocardial infarction dogs on the effects of cardiac sympathetic activities and electrophysiological properties . Danning Wang¹, Dening Liao¹, ¹Department of Cardiology Changzheng Hospital Second Military Medical University, Shanghai, China

WE-089 Inhibition of small conductance Ca²⁺-activated K⁺-channels converts and prevents reinduction of atrial

POSTER SESSIONS

fibrillation in pigs where vernakalant fails. Jonas Goldin Diness^{1,2}, Lasse Skibsbye², Jesper Hastrup Svendsen³, Tobias Speerschneider^{1,2}, Nils Edvardsson⁴, Ulrik Svane Soerensen¹, Thomas Jespersen², Morten Grunnet^{1,2}, Bo Hjorth Bentzen^{1,2}, ¹Acesion Pharma, Copenhagen, Denmark, ²The Danish National Research Foundation Centre for Cardiac Arrhythmia, University of Copenhagen, Copenhagen, Denmark, ³The Danish National Research Foundation Centre for Cardiac Arrhythmia, The Heart Centre, Rigshospitalet, Copenhagen, Denmark, ⁴Sahlgrenska Academy at Sahlgrenska University Hospital, Gothenburg, Sweden

WE-090 Comparing R₂CHADS₂ and CHA₂DS₂VASC scores in stroke patients with non-valvular atrial fibrillation and renal failure. Mohinder Reddy Vindhya¹, Shravani Vindhya¹, Travis Haneke¹, Paul Ndunda¹, Freidy Eid¹, Kenneth J Kallail¹, ¹KU School Of Medicine - Wichita, Wichita, Kansas, USA

WE-091 Characterization of catecholaminergic polymorphic ventricular tachycardia using patient-specific human induced pluripotent stem cells and a transgenic mouse model harboring the mutation H2464D in the cardiac ryanodine receptor. Jonathan J. Hernández^{1,2}, Yanting Zhao¹, Carmen Valdivia¹, Todd Herron¹, Jianhua Zhang², Kathleen R. Maginot³, Timothy J. Kamp^{2,3}, José Jalife¹, Héctor H. Valdivia¹, ¹Center for Arrhythmia Research, University of Michigan, Ann Arbor, Michigan, USA, ²University of Wisconsin-Madison, Madison, Wisconsin, USA, ³University of Wisconsin School of Medicine and Public Health, Madison, Wisconsin, USA

WE-092 Refractoriness in human atria: Time and voltage dependence of sodium channel availability. Lasse Skibsbye¹, Thomas Jespersen¹, Torsten Christ², Mary M Maleckar³, Jussi T Koivumäki^{3,4}, ¹Department of Biomedical Sciences, Faculty of Health and Medical Sciences, University of Copenhagen, Copenhagen, Copenhagen, Denmark, ²Department of Experimental Pharmacology and Toxicology, University Medical Center Hamburg-Eppendorf, Hamburg, Germany, ³Center for Cardiological Innovation and Center for Biomedical Computing, Simula Research Laboratory, Oslo, Norway, ⁴Department of Biotechnology and Molecular Medicine, A.I. Virtanen Institute for Molecular Sciences, Kuopio, Finland

WE-093 Carvedilol and its non-β-blocking analog VK-II-86 prevent digitalis-induced Ca⁺⁺ waves in cardiac myocytes. Luis A Gonano¹, Marisa Sepúlveda¹, Tamara Tottef¹, Tom G Backs², S.R Wayne Chen², Alicia Mattiazzi¹, Martín Vila Petroff¹, ¹Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina, ²University of Calgary, Alberta, Canada

WE-094 Internal pacemaker cell mechanisms mediating autonomic nervous regulation of the heart rate. Joachim Behar¹, Yael Yaniv¹, ¹Technion, Haifa, Israel

WE-095 An implanted dual-site pacing device mimics pacing-induced dyssynchrony and cardiac resynchronization therapy in freely moving rats. Wesam Mulla¹, Sabina Sapunar¹, Sigal Elyagon¹, Hovav Gabay¹, Janet Ozer¹, Noah Liel-Cohen¹, Yoram Etzion¹, ¹Ben-Gurion University, Beer-Sheva, Israel

WE-096 Human calmodulin mutation associated with idiopathic ventricular fibrillation causes CaMKII-dependent RyR2 activation. Nieves Gomez-Hurtado¹, Hyun S Hwang¹, Christopher N Johnson¹, Walter J Chazin¹, Derek Laver², Bjorn C Knollmann¹, ¹Vanderbilt University, Nashville, TN, USA, ²University of Newcastle, Callaghan NSW, Australia

WE-097 Prevailing action potential duration determines the electrical restitution curve. James Winter¹, Yang Hsiang-Yu², Angela W.C. Lee¹, Ken T MacCleod², Michael J Shattock¹, ¹King's College London, London, UK, ²Imperial College London, London, UK

WE-098 Effective treatment of atrial fibrillation in isolated guinea pig hearts by combining established anti-arrhythmics and small conductance Ca²⁺ activated (SK) K⁺ channel block. Jeppe Kirchhoff¹, Jonas G Diness², Majid Sheykhzade¹, Morten Grunnet², ¹Thomas Jespersen¹, ¹University of Copenhagen, Copenhagen, Denmark, ²Acesion Pharma, Copenhagen, Denmark

WE-099 Unnatural Amino Acid Photo-Crosslinking of the I_{Ks} Channel Complex Demonstrates a KCNE1:KCNQ1 Stoichiometry of up to 4:4. Christopher Murray¹, Maartje Westhoff¹, Emely Thompson¹, Robert Emes¹, Jodene Eldstrom¹, David Fedida¹, ¹University of British Columbia, Vancouver, Canada

Mitochondria

WE-100 Role of the NBCn1 Na⁺/HCO₃⁻ co-transporter in mitochondria of hypertrophic hearts, Fernanda Carrizo Velásquez¹, Lorena Vargas¹, Bernardo Alvarez¹, ¹Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina

WE-101 Decreased complex I dependent respiration and increased restriction for ADP in volume overload-induced atrial dilatation. Kalju Paju¹, Taavi Põdrasägi¹, Nadežda Peet¹, Margus Eimre¹, Lumme Kadaja¹, Mart Roosimaa¹, Andres Piirsoo¹, Enn Seppet¹, Arno Ruusalepp¹, ¹University of Tartu, Tartu, Estonia

WE-102 The effect of chronic continuous hypoxia on enzyme activities and membrane permeability of rat heart mitochondria. Martin Kalous¹, Zdenek Drahota², Anna Chytilova², Jan Neckar², ¹Faculty of Sciences, Charles University, Prague, Czech Republic, ²Institute of Physiology, Academy of Sciences of the Czech Republic, Prague, Czech Republic

WE-103 Mice lacking the mitochondrial calcium uniporter have alterations in F₁F₀-ATP synthase. Randi Parks¹, Sara Menazza¹, Angel Aponte², Toren Finkel³, Elizabeth Murphy¹, ¹Systems Biology Center, NHLBI, NIH, Bethesda, MD, USA, ²Proteomic Core Facility, Bethesda, MD, USA, ³Center for Molecular Medicine, Bethesda, MD, USA

WE-104 Blocking cell surface nucleolin in heart cells prevents uptake of immunogenic DNA. Lars Henrik Mariero¹, Anton Baysa¹, Yuchuan Li¹, May-Kristin Torp¹, Guro Valen¹, Jarle Vaage², Kåre-Olav Stensløkken¹, ¹University of Oslo, Oslo, Norway, ²Oslo University Hospital, Oslo, Norway

WE-105 Increased calpain-1 in cardiomyocyte mitochondria disrupts ATP synthase and promotes reactive oxygen species generation to induce dilated heart failure in mice. Ting Cao¹, Dong Zheng^{1,2}, Rui Ni^{1,2}, Lulu Zhang¹, Tianqing Peng^{1,2}, ¹Soochow University, Suzhou, China, ²Lawson Health Research Institute, London, Ontario, Canada

THURSDAY, April 21, 1:00-3:00 PM

Heart Failure & Hypertrophy

TH-001 Changes in cardiac adenosine A3 receptor function and expression associated with essential hypertension. Roselyn Rose Meyer¹, Leanne Low¹, Ming-Fen Ho¹, ¹Griffith University, Southport, Queensland, Australia

TH-002 Physiological and pathological left ventricular hypertrophy of comparable degree is associated with characteristic differences of in vivo hemodynamics associated with distinct expression of mitochondrial regulators. Attila Oláh¹, Balázs Tamás Németh¹, Csaba Mátyás¹, László Hidi¹, Árpád Lux¹, Mihály Ruppert¹, Dalma Kellermayer¹, Alex Ali Sayour¹, Lilla Szabó¹, Marianna Török¹, Anna Meltzer¹, Béla Merkely¹, Tamás Radovits¹, ¹Heart and Vascular Center, Semmelweis University, Budapest, Hungary

TH-003 Differential expression of plasmalogen lipids following modulation via dietary supplementation in a mouse model of reduced PI3K activity. Yow Keat Tham^{1,2}, Natalie A. Mellett¹, Peter J. Meikle^{1,2}, Julie R. McMullen¹, ¹Baker IDI Heart and Diabetes Institute, Melbourne, Australia, ²Monash University, Melbourne, Australia

TH-004 Proliferative and hypertrophic defects contributes to LMNA associated dilated cardiomyopathy. Kenji Onoue^{1,2}, Hiroko Wakimoto², Jiangming Jiang², Michael Parfenov², Danos Christodoulou², Steve DePalma², David Conner², Joshua Gorham², David McKean², Yoshihiko Saito¹, Jonathan Seidman², Christine Seidman², ¹Nara Medical University, Kashihara, Nara, Japan, ²Harvard Medical School, Boston, MA, USA

TH-005 Targeting the L-type Ca²⁺ channel alters mitochondrial function and attenuates hypertrophic cardiomyopathy in a Troponin I mutant mouse model. Helena Viola¹, Victoria Johnstone¹, Christopher Semsarian^{2,3}, Livia Hool^{1,4}, ¹The University of Western Australia, Western Australia, Australia, ²Centenary Institute, University of Sydney, New South Wales, Australia, ³Royal Prince Alfred Hospital, New South Wales, Australia, ⁴Victor Chang Cardiac Research Institute, New South Wales, Australia

TH-006 ProteoSeq – a proteotranscriptomics approach to decode alternative isoform expression in cardiac hypertrophy. Maggie PY Lam¹, T Umut Dincer¹, Yi Xing¹, Peipei Ping¹, ¹UCLA, Los Angeles, CA, USA

TH-007 Folic acid reduces doxorubicin-induced cardiomyopathy by modulating endothelial nitric oxide synthase. Yanti Octavia^{1,2}, Georgios Kararigas³, Martine de Boer¹, Rinrada Kietadisorn², Melissa Swinnen⁴, Hans Duimel⁵, Fons Verheyen⁵, Ihsan Chrifi¹, Maarten Brandt¹, Caroline Cheng¹, Stefan Janssens⁴, Dirk Duncker¹, An Moens^{1,2}, ¹Division of Experimental Cardiology, Department of Cardiology, Thoraxcenter, Erasmus MC, University Medical Center Rotterdam, Rotterdam, The Netherlands, ²Department of Cardiology, Cardiovascular Research Institute Maastricht, Maastricht University Medical Center, Maastricht, The Netherlands, ³Institute of Gender in Medicine and Center for Cardiovascular Research, Charité University Hospital, and DZHK (German Centre for Cardiovascular Research) Berlin partner site, Berlin, Germany, ⁴Department of Cardiovascular sciences, University of Leuven, KU Leuven, Leuven, Belgium, ⁵Electron Microscopy Unit, CRISP and Department of Molecular Cell Biology, Maastricht University Medical Center, Maastricht, The Netherlands

TH-008 The cardiopulmonary vascular system and the ventilatory reflex; scientific merits and clinical implications. Anna Faingersh-Klebanov¹, Amir Landesberg¹, ¹Technion IIT, Haifa, Israel

TH-009 Heart failure assessment with a multiscale model. Jorge Negroni¹, Edmundo Cabrera Fischer¹, Sarah Kosta², Pierre Dauby², Elena Lascano¹, ¹Favaloro University, Buenos Aires, Argentina, ²University of Liege, Liege, Belgium

TH-010 The specific inhibition of the cardiac electrogenic sodium/bicarbonate cotransporter (NBCe1) leads to cardiac hypertrophy. Romina Di Mattia¹, María Carolina Ciancio¹, Ernesto Alejandro Aiello¹, Alejandro Orlowski¹, ¹Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina

TH-011 The role of Profilin-1 in hypertrophic signalling of adult cardiomyocytes. Viola Kooij¹, Peter O'Gara¹, Sian Harding¹, ¹Imperial College London, London, UK

TH-012 Moderate-intensity physical activity reduces systemic inflammation and maintains cardiorespiratory function following PM_{2.5} exposure during exercise in rats. Andrew Fenning¹, Alannah van Waveren¹, Mitch Duncan², Fiona Coulson¹, ¹CQUniversity, Rockhampton, Qld, Australia, ²The University of Newcastle, Newcastle, NSW, Australia

TH-013 Osteopontin Regulates the inflammatory and fibrotic response of transgenic mice expressing cardiac specific active Na⁺/H⁺ Exchanger isoform 1. Fatima Mraiche¹, Nabeel Abdulrahman¹, Iman Abdelaziz¹, Alain Gadeau², ¹Qatar University, Doha, Qatar, ²University of Bordeaux, Pessac, France

TH-014 Characterization of the role of inhibitory G protein, adenylyl cyclase isoforms and phosphodiesterases to regulate β-adrenoceptor-evoked inotropic responses. Marie Victoire Cosson^{1,2}, Halvard Hiis^{1,2}, Finn

POSTER SESSIONS

Olav Levy^{1,2}, Kurt Allen Krobert^{1,2}, ¹Department of Pharmacology, Institute of Clinical Medicine, University of Oslo and Oslo University Hospital, oslo, Norway, ²K.G. Jebsen Cardiac Research Centre and Center for Heart Failure Research, Faculty of Medicine, University of Oslo, oslo, Norway

TH-015 Frequency of renal artery lesions in patients with hypertension. Ramiz Abdulgasanov¹, Sanchez Sebastian¹, Alexey Ivanov¹, Mehriban Abdulgasanova¹, Aslan Ordokov¹, ¹Scientific center of cardiovascular surgery named after A. N. Bakulev, Moscow, Russia

TH-016 Secondary (symptomatic) high blood pressure following aortic lesions. Ramiz Abdulgasanov¹, Sanchez Sebastian¹, Alexey Ivanov¹, Mehriban Abdulgasanova¹, Aslan Ordokov¹, ¹Scientific center of cardiovascular surgery named after A. N. Bakulev, Moscow, Russia

TH-017 Conserved epigenomic basis in mouse and human heart aging. Yuliang Feng¹, Wei Huang³, Joshua S. Waxman⁴, Yigang Wang³, Xiyong Yu^{1,2}, ¹Guangdong General Hospital, Guangzhou, Guangdong, China, ²Guangzhou Medical University School of Pharmaceutical Sciences, Guangzhou, Guangdong, China, ³Dept. of Pathology, University of Cincinnati, Cincinnati, Ohio, USA, ⁴Division of Molecular Cardiovascular Biology, Cincinnati Children's Hospital Medical Center, Cincinnati, Ohio, USA

TH-018 Transferring an *in vitro* model of pathological cardiac hypertrophy from rat to human engineered heart tissue. Tessa Werner^{1,2}, Marc N Hirt^{1,2}, Kaja Breckwoldt^{1,2}, Ingra Mannhardt^{1,2}, Bärbel Ulmer^{1,2}, Arne Hansen^{1,2}, Thomas Eschenhagen^{1,2}, ¹Department of Experimental Pharmacology and Toxicology, University Medical Center Hamburg-Eppendorf, Hamburg, Germany, ²DZHK (German Centre for Cardiovascular Research), partner site Hamburg/Kiel/Lübeck, Hamburg, Germany

TH-019 Tenascin-C promotes fibrosis and impairs cardiac function under pressure overload. Max Kreibich¹, Elda Dzilić¹, David Santer¹, Lorenz Förster¹, Sandra Trojanek¹, Dietmar Abraham¹, Martin Krssak¹, Attila Kiss¹, Karola Trescher¹, Bruno Podesser¹, ¹Medical University of Vienna, Vienna, Austria

TH-020 Tenascin-C in the murine geriatric heart after myocardial infarction. Felix Nagel¹, David Santer¹, Elda Dzilić¹, Maximilian Kreibich¹, Stefan Stojkovic³, Martin Krssak², Karola Trescher¹, Bruno K Podesser¹, ¹Ludwig Boltzmann Cluster for Cardiovascular Research, Department for Biomedical Research, Medical University of Vienna, Vienna, Austria, ²Centre of Excellence High Field MR, Department of Radiology, Medical University of Vienna, Vienna, Austria, ³Department of Internal Medicine II, Medical University of Vienna, Vienna, Austria

TH-021 Beta-2 microglobulin contributes to myocardial fibrosis during pressure overload. Hui Gong¹, Yang Li¹, Xiaoyi Zhang¹, Zhidan Chen¹, Chunjie Yang¹, Guoping Zhang¹, Yunzeng Zou¹, ¹Fudan University, Shanghai, China

TH-022 The Role of Calcium-Sensing Receptor in Human Peripheral T Lymphocytes on the different stages of Acute Myocardial Infarction. Yihua Sun¹, Jingya Zeng¹, Yong Sun², ¹Department of Clinical Laboratory, The Harbin Medical University Tumor Hospital, Harbin, China, ²Department of Cardiology, The Affiliated Second Hospital of Harbin Medical University, harbin, China

TH-023 Effect and regulation mechanism of exogenous catestatin on blood pressure and cardiac function in renal hypertensive rats. Xiaofang Fan¹, Lu Ding¹, Qingqing Zheng¹, Xuanying Chen¹, Xuerui Wang¹, Yongsheng Gong¹, ¹Institute of Hypoxia Medicine, Wenzhou Medical University, Wenzhou, Zhejiang, China

TH-024 The effect of genes involved in monogenic human cardiomyopathies in a polygenic model of cardiac hypertrophy. Priscilla Prestes¹, Francine Marques², Claire Curl³, Paul Lewandowski⁴, Lea Delbridge³, Stephen Harrap³, Fadi Charchar¹, ¹Federation University Australia, Ballarat, Australia, ²Baker IDI Heart and Diabetes Research Institute, Melbourne, Australia, ³University of Melbourne, Melbourne, Australia, ⁴Deakin University, Geelong, Australia

TH-025 Assessment of miR-669f in the development of pulmonary arterial hypertension and right ventricular hypertrophy. Li Li², Sudhiranjan Gupta¹, ¹Texas A&M University, Temple, TX, USA, ²Peking University, Beijing, China

Signaling Mechanisms

TH-026 Cardiac apoptosis in the prediabetic heart: CaMKII, Ca mishandling and mitochondria dysfunction. Federico Marilén¹, Sommesse Leandro¹, Zanuzzi Carolina², Portiansky Enrique², Dedman John³, Kaetzel Marcia³, Wherens Xander⁴, Mattiazzi Alicia¹, Palomeque Julieta¹, ¹Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina, ²Fac. de Cs. Veterinarias; UNLP, CONICET-CCT La Plata, La Plata, Buenos Aires, Argentina, ³Department of Genome Science, University of Cincinnati College of Medicine, Cincinnati, OH, USA, ⁴Cardiovascular Research Institute, Baylor College of Medicine, Houston, TX, USA

TH-027 Glycoproteomics reveals decorin fragments with anti-myostatin activity in human atrial fibrillation. Javier Barallobre-Barreiro¹, Shashi K Gupta², Anna Zoccaratto¹, Rika Kitazume-Taneike¹, Mei Chong¹, Jens W Fischer³, Thomas Thum², Joerg Heineke⁴, Antoine Kichler⁵, Kinya Otsu¹, Manuel Mayr¹, ¹King's British Heart Foundation Centre, King's College London, London, UK, ²Institute for Molecular and Translational Therapeutic Strategies, MH-Hannover, Hannover, Germany, ³Institute for Pharmacology and Clinical Pharmacology, Heinrich-Heine-University, Düsseldorf, Germany, ⁴Experimental Cardiology, Department of Cardiology and Angiology, MH-Hannover, Hannover, Germany, ⁵Laboratoire Vecteurs: Synthèse et Applications Thérapeutiques, UMR 7199 CNRS Université de Strasbourg, Illkirch, France

TH-028 Cardioprotective effect of IGF-1 upon the hypertrophied myocardium of the spontaneously

hypertensive rats (SHR): a key role on cardiac Na^+/H^+ exchanger (NHE-1) activity and oxidative stress. Alejandra Yeves¹, Juan Burgos¹, Andrés Medina¹, Irene Ennis¹, ¹Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina

TH-029 Polycystin-1 regulates L-type calcium channel stabilization during mechanical stretch in cardiomyocytes. Ivonne Olmedo², Jaime Riquelme^{1,3}, Diego Varela², Gina Sánchez², Paulina Donoso², Zully Pedrozo^{2,3}, ¹Facultad de Ciencias Químicas y Farmacéuticas, Universidad de Chile, Santiago, Chile, ²Facultad de Medicina, Universidad de Chile, Santiago, Chile, ³Advanced Center for Chronic Diseases, Facultad de Medicina and Facultad de Química y Farmacia, Universidad de Chile, Santiago, Chile

TH-030 A mechanism of calmodulation of the human cardiac sodium channel. Christopher Johnson¹, Matthew Thompson¹, Markus Voehler¹, Walter Chazin¹, ¹Vanderbilt School of Medicine, Nashville, TN, USA

TH-031 Tenascin-C deficiency attenuates abdominal aortic aneurysm progression. Felix Nagel¹, Anne K Schaefer¹, Philipp Kaiser¹, David Santer¹, Attila Kiss¹, Karola Trescher¹, Bruno K Podesser¹, ¹Ludwig Boltzmann Cluster for Cardiovascular Research, Department for Biomedical Research, Medical University of Vienna, Vienna, Austria

TH-032 Critical transcriptional regulation of stress-response kinase JNK2 in CaMKII δ gene expression in the aging atrium. Xianlong Gao¹, Xiaomin wu¹, Weiwei Zhao¹, Xun Ai¹, ¹Loyola University Chicago, Maywood, IL, USA

TH-033 Up-regulation of 5-Hydroxytryptamine receptor signaling in coronary arteries after organ culture. Chun Yu Deng¹, Hui Yang¹, Su Juan Kuang¹, ¹Department of Medical Research, Guangdong Cardiovascular Institute, Guangdong General Hospital, Guangdong Academy of Medical Sciences, Guangzhou Guangdong, China

TH-034 Target identification of curcumin on ischemic blood flow and anticancer activities by network analysis and biological approaches. Xuejun Li¹, ¹School of Basic Medical Sciences, Peking University, Beijing, China

TH-035 The role of mast cell tryptase in the progress of atherosclerosis. Xiuling Zhi¹, Xiaobo Li², Pohsheng Yeong², Hao Zhang², Hongxia Shao¹, Luanfeng Pan¹, Lianhua Yin^{1,2}, ¹Training Center of Medical Experiments, School of Basic Medical Sciences, Fudan University, Shanghai, China, ²Department of Physiology & Pathophysiology, School of Basic Medical Sciences, Fudan University, Shanghai, China

TH-036 Intermedin 1-53 attenuates vascular calcification in rats with chronic kidney disease by upregulation of alpha-Klotho. JinRui Chang¹, Jun Guo¹, Yue Wang¹, YueLong Hou¹, WeiWei Lu¹, JinSheng Zhang¹, Yanrong Yu¹, XiuYing Liu^{1,2}, XiuJie Wang^{1,2}, YouFei Guan¹, Yi Zhu¹, Jie Du^{1,2}, ChaoShu Tang¹, YongFen Qi¹, ¹Peking University Health Science Center, Beijing, China, ²The Key Laboratory of Remodeling-related Cardiovascular Diseases, Capital Medical University, Ministry of Education, Beijing, China

TH-037 Impact of high salt independent of blood pressure on PRMT/ADMA/DDAH pathway in the aorta of dahl salt-sensitive rats. Jianjun Mu¹, Yu Chao¹, Chao Chu¹, Tongshua Guo¹, Zuyi Yuan¹, ¹Department of Cardiovascular Medicine, First Affiliated Hospital of Xian Jiaotong University, Xian, China

TH-038 The mechanisms and significance of up-regulation of stomatin expression by glucocorticoid. Ji-Cheng Chen¹, Hao-Yu Cai¹, Yan Wang¹, Jian Lu¹, ¹Department of Pathophysiology, the Second Military Medical University, Shanghai, China

TH-039 HIP-55 function in endocytosis. Zijian Li¹, ¹Institute of Vascular Medicine, Peking University Third Hospital, Beijing, China

TH-040 LncRNA Hand2-AS1, Hand2, and MiR-138-5p crosstalk to participate in VSMC phenotypic switch. Shaoguang Sun¹, Mei Han¹, ¹Hebei Medical University, Shijiazhuang, China

TH-041 Epac is an essential component of the cAMP-mediated cardioprotection and acts synergically with PKA. Igor Khaliulin¹, Mark Bond¹, Zara Dyar¹, Raheleh Amini¹, Jason Johnson¹, M-Saadeh Suleiman¹, ¹University of Bristol, Bristol, UK

TH-042 Temporal phosphoproteomics to investigate the mechanotransduction of vascular smooth muscle cells in response to cyclic stretch. Ying-Xin Qi¹, Yu-Chen Yang¹, Xiao-Dong Wang¹, ¹Institute of Mechanobiology & Medical Engineering, Shanghai Jiao Tong University, Shanghai, China

TH-043 Involvement of BK channel in differentiation of vascular smooth muscle cells induced by mechanical stretch. Xue-Jiao Wang¹, Hu-Cheng Zhao², Bo Huo³, Ying-Xin Qi¹, Zong-Lai Jiang¹, ¹Institute of Mechanobiology & Medical Engineering, Shanghai Jiao Tong University, Shanghai, China, ²Lab of Biomechanics, Department of Engineering Mechanics, Tsinghua University, Beijing, China, ³School of Aerospace Engineering, Beijing Institute of Technology, Beijing, China

TH-044 Functional and morphological improvements mediated by long-term β -arrestin biased agonism of the AT1R in familial dilated cardiomyopathy. David M. Ryba¹, Jieli Li¹, Conrad L. Cowan², Brenda Russell¹, Beata M. Wolska¹, R. John Solaro¹, ¹University of Illinois at Chicago, Chicago, IL, USA, ²Trevena, Inc., King of Prussia, PA, USA

TH-045 TOR pathway regulates calcium handling in heart tissue through eIF-4E and 4E-BP. Manuela Santalla^{1,2}, Carlos Valverde¹, Greco Hernández³, Alicia Mattiazzi¹, Paola Ferrero^{1,2}, ¹Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina, ²Department of Basic Sciences, University of Northwest of Buenos Aires, Pergamino, Buenos Aires, Argentina, ³Division of Basic Research, National Institute of Cancer (INCan), México City, Mexico

TH-046 NOX2 activity induces lateralization, S-nitrosylation and opening of connexin/pannexin hemichannels, causing arrhythmogenesis and apoptosis in dystrophic cardiomyopathy. Alejandra Vielma¹, Mauricio Boric¹,

POSTER SESSIONS

Daniel Gonzalez², ¹Pontifica Universidad Catolica de Chile, Santiago, Chile, ²Universidad de Talca, Talca, Chile

- TH-047 HGF/Met tyrosine kinase receptor in heart physiology and pathophysiology.** Tiziana Crepaldi¹, Simona Gallo¹, Stefano Gatti¹, Valentina Sala¹, Alessandro Bonzano², Paolo Maria Comoglio², ¹University of Turin, Turin, Italy, ²FPO/IRCCS, Turin, Italy
- TH-048 Translocase of the outer mitochondrial membrane 22 is a novel substrate for p38 alpha Mitogen Activated Protein Kinase.** Eva Denise Martin¹, Sharwari Verma¹, Nicholas T. Hertz², Rebecca S. Levin², Alma L. Burlingame², Kevan M. Shokat², Andrew Gilmore³, Goncalo C. Pereira⁴, Nicolas Rognant⁴, Andrew P. Halestrap⁴, Michael S. Marber¹, ¹King's College London, London, UK, ²University of California San Francisco, California, USA, ³University of Manchester, Manchester, UK, ⁴University of Bristol, Bristol, UK
- TH-049 NFAT and MEF-2 control the expression of calsequestrin-2 in rat cardiomyocytes.** Rafael Estrada-Avilés¹, Gabriela Rodríguez¹, Ángel Zarain-Herzberg¹, ¹Universidad Nacional Autónoma de México, Mexico city, Mexico
- TH-050 Proteins secreted preferentially in response to ER calcium dysregulation protect cardiac myocytes from ER stress-induced cell death.** Shirin Doroudgar^{1,2}, Donna J. Thuerauf¹, Mirka Stastna³, Haley Stephens¹, Erik A. Blackwood¹, Jennifer E. Van Eyk⁴, Christopher C. Glembotski¹, ¹San Diego State University, San Diego, USA, ²Department of Cardiology, Angiology, and Pneumology Heidelberg University Hospital and DZHK (German Centre for Cardiovascular Research), Partner Site Heidelberg/Mannheim, Heidelberg, Germany, ³Institute of Analytical Chemistry of the Academy of Sciences of the Czech Republic, Brno, Czech Republic, ⁴Advanced Clinical Biosystems Research Institute, Heart Institute and Department of Medicine, Cedars-Sinai Medical Center, Los Angeles, USA
- TH-051 Proximal endoplasmic reticulum stress response element is essential for SERCA2 gene basal and thapsigargin-induced transcription.** Jorge Fragoso-Medina¹, Gabriela Rodríguez¹, Ángel Zarain-Herzberg¹, ¹Universidad Nacional Autónoma de México, Mexico city, Mexico
- TH-052 Hyperosmotic stress promotes no release in the rat myocardium.** Malena Morell¹, Luis Gonano¹, Juan Ignacio Burgos¹, Martin G Vila Petroff¹, ¹Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina
- TH-053 Role of DBC1 protein in the regulation of hypertension.** Maria Caggiani^{1,2}, Adriana Carlomagno², Carlos Batthyany^{1,2}, Paola Contreras^{1,2}, Carlos Escande², ¹Facultad de Medicina, Universidad de la República, Montevideo, Uruguay, ²Institut Pasteur Montevideo, Montevideo, Uruguay

Electrophysiology/Arrhythmias

- TH-061 Switchable cardiac L-type Ca²⁺ channel transcript by mineralocorticoid pathway.** Thassio Mesquita¹, Gaëlle Auguste¹, Jessica Sabourin¹, Gema Ruiz Hurtado¹, Valérie Rouffiac², Florian Le-Billan³, Jérôme Fagart³, Florence Lefebvre¹, Say Viengchareun³, Eric Morel¹, Ana Maria Gomez¹, Marc Lombès³, Jean-Pierre Benitah¹, ¹UMR-S 1180, Inserm, Univ. Paris-Sud, Université Paris-Saclay, Châtenay-Malabry, France, ²Imaging and Cytometry Platform, UMR 8081 IR4M, Gustave Roussy Institute, Villejuif, France, ³UMR-S 1185, Inserm, Univ. Paris-Sud, Université Paris-Saclay, Le Kremlin-Bicêtre, France
- TH-062 Meis1 regulates sympathetic target-field innervation: consequences for autonomic nervous system induced sudden cardiac death.** Jerome Thireau¹, Fabrice Bouilloux², Charlotte Farah¹, Sarah Karam¹, Yves Dauvilliers³, Sylvain Richard¹, Frederic Marmigère², ¹INSERM U1046-CNRS UMR 9214, Montpellier, France, ²INSERM U1051, Institute for Neurosciences of Montpellier, Montpellier, France, ³Sleep Unit, Department of Neurology, Gui-de-Chauliac hospital, Montpellier, France
- TH-063 Extracellular matrix metalloproteinase 9 (MMP-9) and tissue endogenous inhibitor (TIMP-1) has significantly associated with cardiovascular dysfunction (CVD) defined by echocardiography.** Diego Torres Dueñas¹, Maria Eugenia Niño¹, Edilberto Eduardo², Manuel Guillermo Hernández², Sergio Serrano Gómez¹, Daniela Camila Niño Vargas¹, ¹Universidad Autónoma de Bucaramanga, Bucaramanga, Santander, Colombia, ²Instituto del corazón de Bucaramanga, Bucaramanga, Santander, Colombia
- TH-064 Interpretation of arrhythmia generation induced by sarcoplasmic reticulum Ca²⁺ loss using a human myocyte mathematical model.** Juan Ignacio Felice¹, Carlos Valverde¹, Alicia Mattiazzi¹, Elena Catalina Lascano², Jorge Antonio Negroni², ¹Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina, ²Universidad Favaloro, Ciudad Autónoma de Buenos Aires, Buenos Aires, Argentina
- TH-065 Molecular and functional characterization of novel mutation in the cardiac ryanodine receptor gene (RYR2) in a patient with long QT syndrome.** Carmen Valdivia¹, Erika Antunez², Jonathan Hernandez¹, Todd Herron¹, Teresa Villareal², Pedro Iturralde⁴, Argelia Mereidos-Domingos³, Hector Valdivia¹, ¹University of Michigan, Ann Arbor, MI, USA, ²Universidad Autonoma de Mexico, Mexico City, Mexico, ³University Hospital of Bern, Bern, Switzerland, ⁴Instituto Nacional de Cardiología Ignacio Chavez, Mexico City, Mexico
- TH-066 C543 is the reactive cysteine responsible for increased human L-type calcium channel protein function following glutathionylation.** Padmapriya Muralidharan¹, Henrietta Cserne Szappanos¹, Evan Ingley², Livia Hool^{1,3}, ¹School of Anatomy, Physiology and Human Biology, The University of Western Australia, Crawley, WA, Australia, ²Cell Signalling Research, Harry Perkins Institute of Research, Perth, WA, Australia, ³Victor

Chang Cardiac Research Institute, Sydney, NSW, Australia

- TH-067 Voltage and calcium dynamics in atrial-like and ventricular-like cardiomyocytes derived from human embryonic stem cells by optical mapping.** Sanam Shafaattalab¹, Eric Lin¹, Stephanie Protze², Jeehoon Lee², Mark Gagliardi², Yulia Nartiss², Peter Backx², Zachary Laksman³, Gordon Keller², Glen Tibbits^{1,4}, ¹Simon Fraser University, Burnaby, Canada, ²University of Toronto, Toronto, Canada, ³Univeristy of British Columbia, Vancouver, Canada, ⁴Child and Family Institute, Vancouver, Canada
- TH-068 Isolation of cardiac myocytes from human heart.** Caroline Pascarel-Auclerc¹, Caroline Cros¹, Sébastien Chaigne¹, David Benoist¹, Richard Walton¹, Philippe Pasdois¹, Marine Martinez¹, Yunbo Guo¹, Bruno Stuyvers¹, Sébastien Dupuis¹, Marion Constantin¹, Dominique Détaille¹, Thomas Desplantez¹, Josselin Duchateau², Louis Labrousse², Julien Rogier², Michel Haïssaguerre^{1,2}, Méléze Hocini^{1,2}, Olivier Bernus¹, Fabien Brette¹, ¹IHU-LIRYC, INSERM U1045, Université de Bordeaux, Bordeaux, France, ²CHU Bordeaux, Bordeaux, France
- TH-069 Characterization of electrophysiological properties of right ventricular tissue in human using optical mapping.** Caroline Cros¹, Caroline Pascarel-Auclerc¹, Richard Walton¹, David Benoist¹, Marine Martinez¹, Sébastien Chaigne¹, Yunbo Guo¹, Bruno Stuyvers¹, Philippe Pasdois¹, Sébastien Dupuis¹, Marion Constantin¹, Thomas Desplantez¹, Line Pourteau¹, Josselin Duchateau², Louis Labrousse², Julien Rogier², Michel Haïssaguerre^{1,2}, Meleze Hocini^{1,2}, Olivier Bernus¹, Fabien Brette¹, ¹IHU-LIRYC, INSERM U1045, Univeriste de Bordeaux, Bordeaux, France, ²CHU de Bordeaux, Bordeaux, France
- TH-070 IL-1 β production induces cardiac arrhythmias in diabetic mice.** Emiliano Medei^{1,5}, Gustavo Monnerat Cahli^{1,5}, Micaela Lopez-Alarcon^{1,5}, Oscar Casis³, Martin Vila-Petroff⁴, Juan Ignacio Burgos⁴, Marisa Sepúlvera⁴, Marcelo Bozza⁶, Claudia Paiva⁶, Rosana Bassani², Luiz Vasconcellos⁶, Antonio Carlos Campos de Carvalho^{1,5}, ¹Institute of Biophysics Carlos Chagas Filho, Federal University of Rio de Janeiro, Rio de Janeiro/Rio de Janeiro, Brazil, ²Center for Biomedical Engineering, University of Campinas, Campinas/São Paulo, Brazil, ³Facultad de Farmacia, Universidad del País Vasco UPV/EHU, Vitoria, Spain, ⁴Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina, ⁵National Center for Structural Biology and Bioimaging – CENABIO/UFRJ, Rio de Janeiro/Rio de Janeiro, Brazil, ⁶Instituto de Microbiologia, Federal University of Rio de Janeiro, Rio de Janeiro/Rio de Janeiro, Brazil
- TH-071 Cardiac electrical remodeling study on a type 2 diabetes experimental model.** Ainhoa Rodriguez de Yurre Guirao^{1,2}, Oscar Casis Sáenz², Emiliano Medei¹, ¹Universidade de Rio de Janeiro, Rio de Janeiro, Brazil, ²Universidad del País Vasco, Vitoria-Gasteiz, Spain
- TH-072 Modelling CPVT1 through patient-specific induced pluripotent stem cell-derived cardiomyocytes reveals aberrant mechano-biological and intracellular calcium handling properties associated with beta-blocker resistance.** Ivana Acimovic¹, Marwan M. Refaat², Anton Salykin¹, Franck Aimond³, Jan Pribyl⁴, Valerie Scheuermann³, Melvin M. Scheinman⁵, Petr Dvorak^{1,6}, Vladimir Rotrekl¹, Alain Lacampagne³, Albano C. Meli^{1,3}, ¹Department of Biology, Faculty of Medicine, Masaryk University, Brno, Czech Republic, ²Cardiology Division, Cardiac Electrophysiology Section, American University of Beirut Medical Center, Beirut, Lebanon, ³PhyMedExp, University of Montpellier, INSERM U1046, CNRS UMR9214, Montpellier, France, ⁴CEITEC, Masaryk University, Brno, Czech Republic, ⁵University of California, San Francisco Medical Center, San Francisco, CA, USA, ⁶ICRC, St. Anne's University Hospital, Brno, Czech Republic
- TH-073 Melatonin protects against low potassium induced ventricular fibrillation: role of melatonin receptors activation and connexin-43.** Emiliano Diez^{1,3}, Tamara Beňova², Natalia Prado³, Boris Lipták⁴, Vladimír Knežl⁴, Roberto Miatello^{1,3}, Barbara Bačová², Narcisa Tribulová², ¹Instituto de Fisiología, Facultad de Ciencias Médicas, Universidad Nacional de Cuyo, Mendoza, Argentina, ²Institute for Heart Research, Slovak Academy of Sciences, Bratislava, Slovakia, ³Instituto de Medicina y Biología Experimental de Cuyo, CONICET, Mendoza, Argentina, ⁴Institute of Experimental Pharmacology and Toxicology, Slovak Academy of Sciences, Bratislava, Slovakia
- TH-074 Restoration of p21-activated kinase (Pak1) activity attenuates arrhythmic activity in a dog model of atrial fibrillation.** Jaime DeSantiago¹, Dan J. Bare¹, R. John Solaro², Rishi Arora³, Kathrin Banach¹, ¹Rush University, Chicago, IL, USA, ²University of Illinois at Chicago, Chicago, IL, USA, ³Northwestern University, Chicago, IL, USA

Ischemia/Reperfusion Injury

- TH-075 Protein factor damage like vector prediction of acute coronary syndrome complicated by acute heart failure.** Guzeliya Kayumova¹, Vladimir Razin¹, ¹Ulyanovsk state University, Ulyanovsk, Russia
- TH-076 The Mitochondrial Calcium uniporter is a therapeutic target in the hypoxia/reoxygenation injury.** Yuriana Oropeza-Almazán^{1,2}, Christian Silva-Platas^{1,2}, Keith A. Youker³, Guillermo Torre-Amione^{1,3}, Gerardo García-Rivas^{1,2}, ¹Cátedra de Cardiología y Medicina Vascular, Escuela de Medicina-Tecnológico de Monterrey, Monterrey, Nuevo León, Mexico, ²Centro de Investigación Biomédica-Hospital Zambrano Hellion, Tecnológico de Monterrey, San Pedro Garza García, Nuevo León, Mexico, ³Methodist DeBakey Heart & Vascular Center, The Methodist Hospital, Houston, Texas, USA
- TH-077 Carbonic anhydrase inhibition by benzolamide attenuates myocardial ischemia/reperfusion injury via p38MAPK-dependent mechanism.** Alejandro Ciocchi Pardo¹, Luisa F González Arbeláez¹, Juliana C Fantinelli¹, Romina G Diaz¹, Bernardo Alvarez¹, Susana M Mosca¹, ¹Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina

POSTER SESSIONS

- TH-078 Phospholamban ablation rescues reperfusion arrhythmias in hearts with Ca/calmodulin kinase II constitutive phosphorylation of ryanodine receptors, but not myocardium infarction.** Gabriela Mazzocchi¹, Mariano Di Carlo¹, Carlos Valverde¹, Evangelia Kranias², Xander Wehrens³, Alicia Mattiazzi¹, ¹Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina, ²Department of Pharmacology and Cell Biophysics, Cincinnati, Ohio, USA, ³Departments of Molecular Physiology and Biophysics, Medicine (in Cardiology), and Pediatrics, Baylor College of Medicine, Cardiovascular Research Q3 Q4 Institute, Houston, USA
- TH-079 The use of synthetic wine to delineate the cardioprotective components red wine.** Sandrine Lecour¹, ¹University of Cape Town, Cape Town, South Africa, ²University of Stellenbosch, Stellenbosch, South Africa
- TH-080 Simulated ischemia does not mimic stop flow ischemia in perfused mouse hearts.** Nehuén Salas¹, Yuriana Aguilar Sanchez², Alicia Mattiazzi¹, Ariel Escobar², Carlos Valverde¹, ¹Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina, ²School of Engineering and of Natural Sciences, University of California, Merced, CA, USA
- TH-081 Reversible redox modifications of ryanodine receptor ameliorate ventricular arrhythmias in the ischemic-reperfused heart.** Romina Becerra¹, Bárbara Román¹, Mariano N Di Carlo¹, Juan IE Mariangelo¹, Margarita Salas¹, Gina Sanchez², Paulina Donoso³, Guillermo Schinella⁴, Leticia Vittone¹, Xander H Wehrens⁵, Cecilia Mundiña-Weilenmann¹, Matilde Said¹, ¹Centro de Investigaciones Cardiovasculares Dr. H.E. Cingolani, La Plata, Buenos Aires, Argentina, ²Programa de Fisiopatología, Instituto de Ciencias Biomédicas, Facultad de Medicina, Universidad de Chile, Santiago de Chile, Chile, ³Programa de Fisiología y Biofísica, Instituto de Ciencias Biomédicas, Facultad de Medicina, Universidad de Chile, Santiago de Chile, Chile, ⁴Facultad de Ciencias Médicas, Universidad Nacional de La Plata, CIC-PBA, La Plata, Argentina, ⁵Cardiovascular Research Institute, Department of Molecular Physiology and Biophysics, Department of Medicine (in Cardiology), Pediatrics, Baylor College of Medicine, Houston, USA
- TH-082 Extracellular HSP27 and TLR4 exaggerate functional injury in aging hearts following ischemia.** Lihua Ao¹, Yufeng Zhai¹, Joseph Cleveland¹, David Fullerton¹, Xianzhong Meng¹, ¹University of Colorado Denver, Aurora, Colorado, USA
- TH-083 Non-nuclear estrogen receptor activation reduces cardiac ischemic-reperfusion injury in mice with cardiac specific ablation of ER-alpha.** Sara Menazza¹, Swathi Appachi¹, Junhui Sun¹, John Katzenellenbogen², Benita Katzenellenbogen³, Philip W. Shaul⁴, Elizabeth Murphy¹, ¹Systems Biology Center, National Heart Lung and Blood Institute, NIH, Bethesda, MD, USA, ²Department of Molecular and Integrative Physiology, Univ. of Illinois at Urbana-Champaign, Urbana, IL, USA, ³Department of Chemistry, Univ. of Illinois at Urbana-Champaign, Urbana, IL, USA, ⁴Department of Pediatrics, UT Southwestern Medical Center, Dallas, TX, USA
- TH-084 Xenon administration at reperfusion protects against myocardial infarction in the *in vivo* mouse heart: insight into the mechanisms.** Tiziana Rosa¹, Marleen Forkink¹, Victoria Pell¹, Michael P Murphy², Thomas Krieg¹, ¹University of Cambridge, Cambridge, Cambridgeshire, UK, ²Medical Research Council Mitochondrial Biology Unit, Cambridge, Cambridgeshire, UK
- TH-085 PKG-dependent inhibition of endoplasmic reticulum stress contributes to protective effects of vasonatin peptide against myocardial ischemia/reperfusion injury in diabetic rats.** Wenjuan Xing¹, Qianqian Dong¹, Haifeng Zhang¹, ¹Fourth Military Medical University, Xi'an, China
- TH-086 Ischaemic preconditioning protects the heart against ischaemia-reperfusion injury without affecting ischaemic succinate accumulation and metabolism.** Victoria Pell¹, Ana S.H Costa², Angela Logan³, Tiziana Rosa¹, John Mulvey¹, Christian Frezza², Michael Murphy³, Thomas Krieg¹, ¹Department of Medicine, University of Cambridge, Cambridge, UK, ²MRC Cancer Unit, Cambridge, UK, ³MRC Mitochondrial Biology Unit, Cambridge, UK
- TH-087 Hypothyroidism reduces cardiac stunning with a mitochondrial regulation of sarcoplasmic Ca²⁺ leak: a mechano-energetical study.** María Inés Ragone^{1,2}, María Lara Lazarte¹, Alicia E. Consolini¹, ¹Universidad Nacional de La Plata, Facultad de Ciencias Exactas, Depto de Ciencias Biológicas, Farmacología, La Plata, Argentina, ²Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET), La Plata, Argentina
- TH-088 The way of administration makes a difference in the effects of genistein on cardiac stunning: mechano-energetical study.** Germán A. Colareda¹, Alicia E. Consolini¹, ¹Universidad Nacional de La Plata, Facultad de Ciencias Exactas, Depto de Ciencias Biológicas, Farmacología, La Plata, Argentina
- TH-089 Depression and risk of cardiovascular diseases in men aged 25-64 years: who program Monica –psychosocial.** Valery Gafarov^{1,2}, Elena Gromova^{1,2}, Dmitriy Panov^{1,2}, Igor Gagulin^{1,2}, Almira Gafarova^{1,2}, ¹Research Institute of Internal and Preventive Medicine, Novosibirsk, Russia, ²Collaborative laboratory of Cardiovascular Diseases Epidemiology, Novosibirsk, Russia
- TH-090 Ticagrelor prevented reperfusion arrhythmias in dysmetabolic rats.** Nicolas Renna^{1,2}, Emiliano Diez², Amira Ponce Zumino², Roberto Miatello^{1,2}, ¹Área de Fisiopatología, Facultad de Ciencias Médicas, Universidad Nacional de Cuyo, Mendoza, Argentina, ²Instituto de Medicina y Biología Experimental de Cuyo, CONICET, Mendoza, Argentina
- TH-091 Administration of anabolic steroid during adolescent phase promote long-term increase in the susceptibility to myocardial ischemia/reperfusion injury: involvement of cardiac renin-angiotensin system and katp channel.** Fernando Seara^{1,2}, Dahienne Oliveira¹, Raiana Barbosa¹, José Hamilton Nascimento¹, Emerson Olivares², ¹Federal University of Rio de Janeiro, Rio de Janeiro, Brazil, ²Federal Rural

*University of Rio de Janeiro, Seropedica, Brazil***Mitochondria**

- TH-092 Novel software tools for crowdsourcing cardiac protein knowledge in Gene Wiki.** Anders O. Garlid^{1,2}, Jessica M. Lee^{1,2}, Jennifer S. Polson^{1,2}, Tefik Umut Dincer^{1,2}, Sarah B. Scruggs^{1,2}, Ding Wang^{1,2}, Andrew I. Su^{1,3}, Peipei Ping^{1,2}, ¹NIH BD2K Center of Excellence at UCLA, Los Angeles, CA, USA, ²Departments of Physiology, Medicine, and Bioinformatics, University of California, Los Angeles, Los Angeles, CA, USA, ³Department of Molecular and Experimental Medicine, The Scripps Research Institute, San Diego, CA, USA
- TH-093 CTRP3 promotes the production of mitochondrial reactive oxygen species in vascular smooth muscle cells.** Li-Ling Wu¹, Han Feng¹, Jin-Yu Wang¹, Ming Zheng¹, Cheng-Lin Zhang¹, Yuan-Ming An¹, Li Li¹, ¹Peking University Health Science Center, Beijing, China
- TH-094 Cystathionine-gamma-lyase/hydrogen sulfide inhibiting smooth muscle cells proliferation through regulating mitochondrial morphology in diabetic rat.** weihua zhang¹, Jichao Wu¹, Fan Yang¹, Changqing Xu¹, Fanghao Lu¹, ¹Harbin Medical University, Harbin, China
- TH-095 Mitochondrial DAMPs in sterile inflammation after acute myocardial infarction.** May-Kristin Torp¹, Yuchuan Li¹, Trine Ranheim², Torun Flatebø¹, Arne Yndestad², Kåre-Olav Stensløyken¹, ¹Division of Physiology, Institute of Basic Medical Sciences, University of Oslo, Oslo, Norway, ²Research institute of internal medicine, Oslo University Hospital Rikshospitalet, Oslo, Norway
- TH-096 Alpha-MHC MitoTimer Mouse: in vivo mitochondrial turnover model reveals remarkable mitochondrial heterogeneity in the heart.** Aleksandr Stotland¹, Roberta Gottlieb¹, ¹Cedars-Sinai Heart Institute, Los Angeles, CA, USA
- TH-097 Oncotic and apoptotic mechanisms of toxic cardiomyocyte injury: role of mitochondria and gene expression.** L. Maximilian Buja¹, Priya Weerasinghe¹, David Loose¹, Robert Brown¹, ¹The University of Texas Health Science Center at Houston, Houston, Texas, USA
- TH-098 Monoamine oxidases are major contributors to mitochondrial ROS formation and dysfunction, and cardiac damage in diabetic cardiomyopathy.** Soni Deshwal¹, Chou-Hui Hu², Guido Buonincontri², Marleen Forkink², Salvatore Antonucci¹, Mike Murphy³, Thomas Krieg², Nina Kaludercic⁴, Fabio Di Lisa^{1,4}, ¹University of Padova, Padova, Italy, ²University of Cambridge, Cambridge, UK, ³Mitochondrial Biology Unit, MRC, Cambridge, UK, ⁴CNR Neuroscience Institute, Padova, Italy
- TH-099 Factors controlling MAO-dependent oxidative stress in myocytes and non-myocytes of the heart.** Veronica Costantini¹, Alessandra Castegna², Roberta Menabò^{1,3}, Erika Mariana Palmieri², Marcella Canton¹, Fabio Di Lisa^{1,3}, ¹University of Padova, Padova, Italy, ²University of Bari, Bari, Italy, ³Institute of Neuroscience CNR, Padova, Italy

SYMPOSIUM SPEAKERS



Abel, E. Dale, University of Iowa, Iowa, USA

Anderson, Mark E., Johns Hopkins University, Maryland, USA

Avkiran, Metin, King's College London, London, UK

Bassani, Rosana, University of Campinas, São Paulo, Brazil

Bernardi, Paolo, University of Padova, Padova, Italy

Blaxall, Burns, Cincinnati Children's Hospital Medical Center, Cincinnati, Ohio, USA

Brum, Patricia, University of Sao Paulo, Sao Paulo, Brazil

Carrier, Lucie, University Medical Center Hamburg-Eppendorf, Hamburg, Germany

Chang, Ching-Pin, Indiana University, Indianapolis, USA

Chin, Michael T., University of Washington, Seattle, USA

Colecraft, Henry, Columbia University, New York, USA

Condorelli, Gianluigi, Humanitas Research Hospital, Milan, Italy

Crottogini, Alberto, Favaloro University, Buenos Aires, Argentina

Davis, Jennifer, Cincinnati Children's Hospital Medical Center, Cincinnati, Ohio, USA

Delbridge, Lea, University of Melbourne, Melbourne, Australia

del Monte, Federica, Beth Israel Deaconess Medical Center - Harvard, Boston, Massachusetts, USA

Di Lisa, Fabio, University of Padova, Italy

Dibb, Katharine, Institute of Cardiovascular Sciences, Manchester, UK

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Donoso, Paulina, University of Chile, Santiago de Chile, Chile

Dorn, Gerald, Washington University, St. Louis, Missouri, USA

Drosatos, Konstantinos, Temple University, Philadelphia, Pennsylvania, USA

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Eisner, David, University of Manchester, Manchester, UK

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Hausenloy, Derek, Duke-NUS, Singapore

Heller Brown, Joan, University of California -San Diego, California, USA

Hill, Joseph A., UT Southwestern Medical Center, Dallas, Texas, USA

Hool, Livia, The University of Western Australia, Crawley, Australia

Houser, Steven, Temple University, Philadelphia, Pennsylvania, USA

Howlett, Susan, Dalhousie University, Nova Scotia, Canada

Hsieh, Patrick, Institute for Biomedical Sciences, Taipei, Taiwan

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Kitsis, Richard, Albert Einstein College of Medicine, Bronx, New York, USA

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Komuro, Issei, The University of Tokyo, Tokyo, Japan

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Molkentin, Jeffery, UC Department of Pediatrics, Cincinnati, Ohio, USA

Murohara, Toyooki, Nagoya University, Nagoya, Japan

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Pozzan, Tulio, University of Padova, Padua, Italy

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Schulze, Christian, Columbia University, New York, USA

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