



1-4 of July 2015
in Bordeaux, France



33rd meeting of the European Section of ISHR

Program

université
de **BORDEAUX**



 **RÉGION
AQUITAINE**

 **BORDEAUX
MÉTROPOLE**



 **ISHR**
International Society for Heart Research
European Section

Avec le soutien de

 **fondation**
Bordeaux Université

The organizing committee

Pierre Dos Santos: LIRYC Institute & CardioThoracic Research Center of Bordeaux (UMR 1045 Inserm-University of Bordeaux) & University Hospital of Bordeaux, France

Rodolphe Fischmeister: President-Elect of the ISHR-ES - Signaling and Cardiac Pathophysiology (UMR-S 769 Inserm-University Paris Sud), France

David Eisner: President ISHR-ES - Manchester Academic Health Science Centre, University of Manchester, Manchester, UK

Peter Ferdinandy: Past-President of ISHR-ES - Department of pharmacology and pharmacotherapy, Semmelweis University, Budapest, Hungary

Derek J Hausenloy: Secretary of the ISHR-ES - The Hatter Cardiovascular Institute, University College of London, UK

Jolanda Van der Velden: Treasurer of the ISHR-ES Laboratory for physiology, Institute for cardiovascular research, VU University Medical Center, Amsterdam, Netherlands

Thomas Eschenhagen: Department of Experimental Pharmacology and Toxicology, University Medical Center Hamburg-Eppendorf, Hamburg, Germany

Emilio Hirsch: Member of the ISHR-ES Council - Department of Molecular Biotechnology and Health Sciences, Center for Molecular Biotechnology, Torino, Italy

Michel Haïssaguerre: LIRYC Institute & CardioThoracic Research Center of Bordeaux (UMR 1045 Inserm-University of Bordeaux) & University Hospital of Bordeaux, France

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Roger Marthan: LIRYC Institute & CardioThoracic Research Center of Bordeaux (UMR 1045 Inserm-University of Bordeaux) & University Hospital of Bordeaux, France

Olivier Bernus: LIRYC Institute & CardioThoracic Research Center of Bordeaux (UMR 1045 Inserm-University of Bordeaux), France

Pierre Bordachar: LIRYC Institute & CardioThoracic Research Center of Bordeaux (UMR 1045 Inserm-University of Bordeaux) & University Hospital of Bordeaux, France

Philippe Ritter: LIRYC Institute & University Hospital of Bordeaux, France

Raymond Roudaut: University of Bordeaux & University Hospital of Bordeaux, France

Thierry Couffignal: Cardiovascular adaptation to Ischemia (UMR 1024 Inserm-University of Bordeaux) & University Hospital of Bordeaux, France

Cécile Duplâa: Cardiovascular adaptation to Ischemia (UMR 1024 Inserm-University of Bordeaux), France

Pascale Dufourcq: Cardiovascular adaptation to Ischemia (UMR 1024 Inserm-University of Bordeaux), France

Alain-Pierre Gadeau: Cardiovascular adaptation to Ischemia (UMR 1024 Inserm-University of Bordeaux), France

Logistics team

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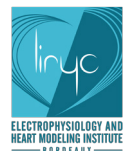


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Welcome to Bordeaux, World Capital of Wine

The 33rd Annual Meeting of the European Section of the ISHR will be held in Bordeaux from the 1st until the 4th of July 2015. It will be hosted by the University of Bordeaux (<http://www.u-bordeaux.com>). The University of Bordeaux is the fifth largest university in France with 63,000 students, including 7,500 foreign students, 3,900 researchers and 110 research units. It contains several major national research centres including various laboratories of major national centres (CNRS, INSERM, INRA, INRIA, IFREMER, etc.). Ranked among the top universities in France, the University of Bordeaux is renowned for the quality of its academic courses and research.

Cardiology, whether it concerns clinical care or research, is a field for which Bordeaux has long been an internationally recognized site. The teams of clinicians and researchers have contributed to major scientific developments in the fields of atrial fibrillation, ventricular fibrillation, and cardiac resynchronization therapy for patients suffering from heart failure and thrombosis. Such developments have led to therapeutic applications that have been carried out all over the world.

You will be received by the teams of the Liryc institute (<http://www.ihu-liryc.fr>), a multidisciplinary research, clinical practice and training institute that is dedicated to understand electrical malfunctions of the heart. This institute is one of a kind in Europe and gathers together on one platform a unique concentration of world-renowned skills in the fields of cardiology, medical imagery, image analysis and modeling.

We have no doubt you will enjoy your stay in Bordeaux, the world capital of wine. 10,000 new inhabitants arrive every year in this attractive city which has a UNESCO World Heritage classification. As well as participating in excellent science, we hope you will take the opportunity to stroll through the streets of Bordeaux and appreciate its sights, restaurants and cafes.

Rodolphe Fischmeister

President-Elect of the ISHR-ES



Pierre Dos Santos

President of the organizing committee



A world-renowned destination for its prestigious vineyards, Bordeaux is a beautiful city in an outstanding region, with a habit of surprising its visitors ...

Beyond the architectural and cultural heritage, Bordeaux has become an influential and attractive metropolis.

- UNESCO World Heritage Site since 2007
- The world capital of wine
- 300 professional meetings per year
- One of the top French congress destinations
- 4 million visitors per year

The wine-growing activities and the strong political and cultural links with the British Isles have given Bordeaux an international flavour since the Middle Age!

General information

Registration (Prices include taxes)

Registration to participate at ISHR can only be done by internet at ishr2015.com.

Registration fee to the Congress	Until 9 th May 2015	From the 10 th May 2015
ISHR non member	400€	500€
ISHR member	300€	400€
Students	100€	150€

The registration fee includes access to the Conference rooms and the rest of the Congress, the coffee breaks, the lunches and the Gala dinner.

Registration fee for the social Program: 30€ ; 45€ for companions and 10€ for students.

Registration conditions and cancellation

Each registration will only be valid after the reception of payment.

The closure date for on-line registration is 29th May 2015. After that, registration can be done on site at the Congress with an increase of 15%.

Any cancellation must be done absolutely in writing (letter or fax) to Madame Danielle Pichereau Le Ster - PTIB - Campus Xavier Arnoz - 33604 Pessac - France - Fax: (+33) 05 57 10 28 69

Before 29th May 2015, the Registration will be reimbursed minus 60€ Administration fee (30€ for Students). After this deadline, it will not be possible to get any reimbursement.

Accommodation

For all accommodation requests, you can consult the site ishr2015.com. Under "Accommodation" you will find a list of Hotels.

Internet site

Up to date program, information, registration, submission of abstracts is available on line on the website ishr2015.com

Congress venue

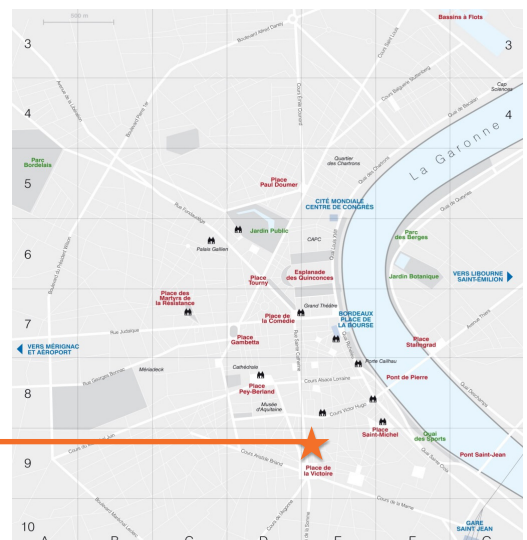
Université de Bordeaux - Campus Victoire
Place de la Victoire
33000 Bordeaux

Public transport

Tram: Line B - Victoire stop

Bus: Line 11 - 16 - 43 - 45 - Victoire stop

Meeting venue



8:30-12:00	ISHR International Council	Salle TD5
12:00	Poster Display	
14:00-14:15	Opening ceremony	
14:15-15:15	Plenary session 1 - Outstanding Investigator Award lecture microRNAs and the heart: what comes next? <i>Thomas Thum (Hannover, Germany)</i> Chair: <i>Asa Gustafsson (San Diego, USA)</i> - Co-chair: <i>Jolanda Van der Velden (Amsterdam, The Netherlands)</i>	
15:30-17:00	Session 1 - Emerging Ca²⁺ channels in cardiovascular system	Jonathan Lederer (Baltimore, MD, USA), Marie Demion (Montpellier, France) <i>Jean-Sébastien Hulot (Paris, France)</i> <i>Donald Bers (Davis, USA)</i> <i>Jessica Sabourin (Châtenay-Malabry, France)</i> <i>Hind Mehel (Paris, France)</i>
	Stim 1 and Orai in cardiac hypertrophy	
	Nuclear Ca fluxes and Transcriptional Regulation	
	TRPC channels in cardiac pathophysiology	
	Effects of FGF23 and sklotho on adult rat cardiomyocytes in culture	
	Protective inflammation via Orail-3-dependant Calcim Influx in Compensated Cardiac HyPERTROPHY	
	Session 2 - Myocardial protection by remote ischemic pre-conditioning	Michel Ovize (Lyon, France), Pierre Dos Santos (Bordeaux, France) <i>Hans Erik Bøtker (Aarhus, Denmark)</i> <i>Petra Kleinbongard (Essen, Germany)</i> <i>Tienush Rassaf (Düsseldorf, Germany)</i> <i>Marika Campesan (Padova, Italy)</i>
	Clinical application of RIPC	
	Cofounders of cardioprotection by RIPC	
	Circulating nitrite during cardioprotection by RIPC	
	Overexpression of the mitochondrial Ca ²⁺ uniporter increases cardiac tolerance against ischemia/reperfusion injury.	
	Efficient isolation of high-purity exosomes from blood plasma	<i>Zoltan Giricz (Budapest, Hungary)</i>
	Session 3 - Pathophysiology of heart failure with preserved ejection fraction	Jolanda van der Velden (Amsterdam, The Netherlands), Richard L. Moss (Madison, WI, USA) <i>Nazha Hamdani (Amsterdam, The Netherlands)</i>
	The road to understanding diastolic dysfunction in heart failure with preserved ejection fraction	
	Titin-based stiffness in heart failure with preserved ejection fraction: Novel regulatory mechanisms and therapeutic implications	<i>Wolfgang Linke (Münster, Germany)</i>
	Collagen network	<i>Javier Diez (Pamplona, Spain)</i>
	Altered phosphorylation of cardiac myosin binding protein is a dominant determinant of diastolic function C in hypertrophic cardiomyopathy	<i>Sumit Kar (Madison, WI, USA)</i>
	Monoamine oxidases contribute to oxidative stress and cardiac dysfunction in type 1 diabetic hearts	<i>Nina Kaludercic (Padova, Italy)</i>
17:00-18:00	Coffee break and Posters	
18:00-19:30	Session 4 - Calcium induced arrhythmias	David Eisner (Manchester, UK) Donald M. Bers (Davis, USA) <i>Ernst Niggli (Bern, Switzerland)</i> <i>Ana Maria Gomez (Châtenay-Malabry, France)</i>
	Post-translational modifications of ryanodine receptor	
	Calcium handling in catecholaminergic polymorphic ventricular tachycardia	
	Role of ryanodone receptor inhibitors in the treatment of catecholaminergic polymorphic ventricular tachycardia	<i>Luigi Venetucci (Manchester, UK)</i>
	Characterization of regional differences in calcium transient and t-tutules organization in left atrium from sheep	<i>Fabien Brette (Bordeaux, France)</i>
	Phosphorylation of inhibitor-1 at Ser-67 reduces PKA-mediated stimulation of Na/K ATPase via phospholemman and leads to increased intracellular Na ⁺ in cardiac myocytes.	<i>Davor Pavlovic (Birmingham, UK)</i>

Session 5 - Inflammation in ischemia and reperfusion injury revisited

Reducing I/R injury - experimental hope or clinical reality?	Peter Ferdinandy (Budapest, Hungary), Stéphanie Barrère-Lemaire (Montpellier, France)
Molecular imaging of inflammation during ischemia and reperfusion using targeted microparticles	Fatih Arslan (Utrecht, The Netherlands) Robin P. Choudhury (Oxford, UK)
Monocytes and heart function after acute myocardial infarction	Ziad Mallat (Paris, France & Cambridge, UK)
Infarct limitation by GYY4137 at reperfusion, a slow-releasing hydrogen sulfide donor, is PI3K/Akt-dependant with partial dependency on endothelial NO in the rat in vivo	Qutuba G. Karwi (Cardiff, UK)
TLR4 expression is associated with left ventricular dysfunction in patients undergoing coronary artery bypass surgery	Edith Hochhauser (Petah Tikva, Israel)

Session 6 - Novel aspects of cell death and survival mechanisms in heart failure

Autophagy, mitochondria and heart failure	Metin Avkiran (London, UK), Lucie Carrier (Hambourg, Germany)
Interplay between UPS and autophagy in the development of cardiomyopathies	Asa Gustafsson (San Diego, CA, USA) Tania Zaglia (Padova, Italy)
Novel cAMP signalling in cardiac autophagy and apoptosis during myocardial stress	Frank Lezoualc'h (Toulouse, France)
Inhibition of phosphoinositide 3-kinase γ protects against chemotherapy-induced cardiomyopathy by promoting cardiac autophagy	Alessandra Ghigo (Torino, Italy)
Derailment of Cellular Protein Quality Control system represents a contributing factor for muscle atrophy in striated muscle myopathies	Vaishali Kakkar (Amsterdam, The Netherlands)

- Amphitheatre Broca
- Amphitheatre Durkeim
- Amphitheatre E

7:30-9:30
08:30
09:00-10:00

ISHR-ES Council
Poster Display

Salle du Conseil
Cour d'honneur

Plenary session 2 - Peter Harris Distinguished Scientists Award
Cell-Based Therapies for Ischemic Cardiomyopathy - Roberto Bolli (Louisville, KY, USA)
Chair: Masatsugu Hori (Osaka, Japan) - Co-chair: Peter Ferdinandy (Budapest, Hungary)

9:30-11:30
10:00-10:30
10:30-12:00

JMCC AE
Coffee break

Salle du Conseil
Atrium & Cour d'honneur

Session 7 - Electrophysiological and structural determinants of driver mechanisms in persistent AF: insights from experimental models

Rotors as drivers of atrial fibrillation

Remodeling in atrial fibrillation

Epi-endocardial dissociation in persistent AF

Atrial remodeling in conscious freely-moving rats exposed to sustained atrial tachypacing

Inhibition of ER stress-induced autophagy preserves proteostasis and protects against cardiomyocyte dysfunction in experimental and human Atrial Fibrillation

Michel Haïssaguerre (Bordeaux, France),
Yoram Etzion (Beer-Sheva, Israel)

Jérôme Kalifa (Ann Arbor, MI, USA)

Stéphane Hatem (Paris, France)

Ulrich Schotten (Maastricht, The Netherlands)

Yoram Etzion (Beer-Sheva, Israel)

Marit Wiersma (Groningen, The Netherlands)

Session 8 - Looking beyond mitochondrial dynamics

Mitofusin functioning other than mitochondrial fusion

Oxidation of Opa1 participates in heart ischemic reperfusion injury

Mitofusin 2 is required to maintain mitochondrial coenzyme Q levels in heart

Dual knockout of the mitochondrial fusion proteins Mfn1 and Mfn2 promotes mitochondrial fission and protects the heart against ischemia-reperfusion injury.

Overexpression of mitofusin 2 in the diabetic heart; pathological or cardioprotective remodelling?

Livia Hool (Western Australia), Jérémy Fauconnier (Montpellier, France)
Gerald W. Dorn (St Louis, MO, USA)

Luca Scorrano (Padova, Italy)

Arnaud Mourier (Köln, Germany)

Andrew Hall (London, UK)

Lucy Murfitt (Manchester, UK)

Session 9 - Extreme adrenergic stress and the heart - Takotsubo cardiomyopathy and beyond

Myocardial responses to supraphysiological catecholamine stimulation

Altered myocardial lipid metabolism after severe adrenergic stress - Cause or effect?

Dolphins, diving and dysrhythmias: autonomic conflict as a trigger for sudden death?

Adverse cardiac effects of TLR9 after chronic β -adrenergic stimulation

Prolonged exhaustive exercise induces diastolic dysfunction with preserved systolic function mediated by oxidative stress.

Yoshihiko Saito (Nara, Japan),
Alexander Lyon (London, UK)
Sian E. Harding (London, UK)

Elmir Omerovic (Gothenburg, Sweden)

Michael J. Shattock (London, UK)


Trusha Mistry (London, England, UK)

Olivier Cazorla (Montpellier, France)

12:00-12:45
12:00-13:30

Generally Assembly of ISHR-ES
Lunch and Posters

Atrium & Cour d'honneur

 Amphitheatre Broca
 Amphitheatre Durkeim
 Amphitheatre E

13:30-15:00	<p>Session 10 - Genetics of cardiac arrhythmias</p> <p>Inherited Cardiac Arrhythmias in the Era of Next Generation Sequencing Targeted arrhythmia management Modeling inherited arrhythmogenic syndromes with iPS Increased arrhythmia incidence in ventricular cells and muscle strip preparations of a mouse model of hypertrophic cardiomyopathy Genetics of ventricular fibrillation with short-coupled torsade de pointes</p>	<p>Frédéric Sacher (Bordeaux, France), Pascale Guicheney (Paris, France) <i>Jean-Jacques Schott (Nantes, France)</i></p> <p><i>Andrew Grace (Cambridge, UK)</i> <i>Oren Caspi (Haifa, Israel)</i> <i>Frederik Flenner (Hamburg, Germany)</i></p> <p><i>Malorie Blancard (Paris, France)</i></p>
13:30-15:00	<p>Session 11 - Subsarcolemmal vs interfibrillar mitochondria: Location, location, location!</p> <p>Subsarcolemmal vs. interfibrillar mitochondria: differences in protein content and function Subsarcolemmal vs interfibrillar mitochondria: Location, location, location! Differences in cardioprotection Interfibrillar and subsarcolemmal mitochondria in cardiac hypertrophy and heart failure Quantification of mitochondrial morphology and its interaction with junctional sarcoplasmic reticulum in MFN2-KO mice using a 3 dimensional approach Elevated mitochondrial oxidative stress contributes to decreased heart function in prediabetes</p>	<p>Rainer Schulz (Germany), Pierre Dos Santos (Bordeaux, France) <i>Rainer Schulz (Germany)</i></p> <p><i>Marisol Ruiz-Meana (Barcelona, Spain)</i></p> <p><i>Torsten Doenst (Jena, Germany)</i></p> <p><i>Siavash Beikoghli Kalkhoran (London, UK)</i></p> <p><i>Gabor Koncsos (Budapest, Hungary)</i></p>
	<p>Session 12 - Pregnancy as a cardiac stress model</p> <p>Are pregnancy and exercise-induced ventricular hypertrophies really physiological? Pregnancy unmasks genetic cardiomyopathies</p> <p>Peripartum Cardiomyopathy and Dilated Cardiomyopathy: Different at Heart</p>	<p>Masatsugu Hori (Osaka, Japan), Jane-Lise Samuel (Paris, France) <i>Bertrand Crozatier (Châtenay Malabry, France)</i></p> <p><i>Karin Y. van Spaendonck-Zwart (Amsterdam, The Netherlands)</i> <i>Ilse Bollen (Amsterdam, The Netherlands)</i></p>
15:00-16:30	<p>Coffee break</p>	<p>Atrium & Cour d'honneur</p>

16:30-18:00

Session 13 - New Insights into the mechanisms of ventricular fibrillation and defibrillation

Non-invasive mapping of human ventricular fibrillation
 The Importance of Purkinje Activation in Long Duration Ventricular Fibrillation
 Low-energy defibrillation of ventricular fibrillation
 Is intracellular Ca^{2+} handling of cardiac Purkinje fibres specially designed to preserve the electric conduction in the heart?
 Reconstructing transmural electrical activity from intact tissue using novel optical mapping approaches

Frédéric Sacher (Bordeaux, France), Igor Efimov (St-Louis, MO, USA)
 Olivier Bernus (Bordeaux, France)
 Raymond E. Ideker (Birmingham, Alabama, USA)
 Igor Efimov (St Louis, MO, USA)
 Bruno Stuyvers (Bordeaux, France)
 Richard Walton (Bordeaux, France)

Session 14 - Mitochondrial Ca transport & cardiac diseases

Mitochondrial oxidative stress and arrhythmias in hypertrophic cardiomyopathy
 Calcium Regulation of Mitochondrial Function
 Endoplasmic reticulum, Ca^{2+} and mitochondria
 Measuring the Mitochondrial Membrane Potential In Vivo
 Using Mitochondria-Targeted Click Chemistry
 High glucose and interleukin- 1β trigger mitochondrial oxidative stress through monoamine oxidases

Hossein Ardehali (Chicago, USA), Rosario Rizzutto (Padova, Italy)
 Christoph Maack (Hamburg, Germany)
 Elizabeth Murphy (Columbia, MD, USA)
 Michel Ovize (Lyon, France)
 Victoria Pell (Cambridge, UK)
 Soni Deshwal (Padova, Italy)

Session 15 - Heart repair with pluripotent stem cells

Clinical translation of pluripotent stem cell-based heart repair
 Stem Cell Allogenicity for Cardiac repair and Beyond
 Translating engineered heart muscle-based heart failure repair
 Effects of cell-based gene therapy on infarct size and ventricular function in an ovine model of acute myocardial infarction
 NO donor-induced cytoprotection against simulated ischemia/reperfusion induced cell death in induced pluripotent stem cell-derived cardiac myocytes

Keiichi Fukuda (Tokyo, Japan), Michel Puceat (Marseille, France)
 Stefan Janssens (Leuven, Belgium)
 Reem Al-Daccak (Paris, France)
 Wolfram H. Zimmermann (Göttingen, Germany)
 Anna Hnatiuk (BA, Argentina)
 Aniko Görbe (Szeged, Hungary)

18:00-19:30

Plenary session 3

Presentation of ISHR-ES Medal of Merit to Fabio di Lisa (Bologna, Italy)

Award Servier

Modulation of the Notch signaling pathway by ErbB2: role in the cardiotoxicity of ErbB2-targeted therapy - Pietro Ameri (Genova, Italy)

Presentation of "Distinguished Leader Award" to David Hearse (London, UK)

Novartis

Chair: Metin Avkiran (London, UK) - Co-chair: Richard L. Moss (Madison, WI, USA)

From 20:30

Gala Dinner at the CAPC

- Amphitheatre Broca
- Amphitheatre Durkeim
- Amphitheatre E

8:30-9:00	Poster Display	Cour d'honneur
09:00-10:00	Plenary session 4 - Peter Harris Distinguished Scientists Award X-ROS signaling in Heart - Jon Lederer (Maryland, USA) Chair: David Eisner (Manchester, USA) - Co-chair: Pierre Dos Santos (Bordeaux, France)	
10:00-10:30	Coffee break and Posters	Atrium & Cour d'honneur
10:30-12:00	Session 16 - Metabolic signaling pathways AMPK, a multifaceted target for therapeutic strategies against various heart diseases Sirtuin 1 and energy metabolism in normal and failing heart Adiponectin in heart failure, focus on skeletal muscle metabolism The Cardiac Hcpidin/Ferroportin Axis is Important for Cardiac Iron Homeostasis and Function Role of P2Y4 receptor in adipogenesis and cardioprotection.	Derek J Hausenloy (London, UK), Fabio Di Lisa (Padova, Italy) <i>Luc Bertrand (Louvain, Belgium)</i> <i>Anne Garnier (Châtenay-Malabry, France)</i> <i>An M. Van Berendoncks (Antwerp, Belgium)</i> <i>Samira Lakhali-Littleton (Oxford, UK)</i> <i>Anne lemaire (Bruxelles, Belgique)</i>
	Session 17 - Heart and cancer: Is the enemy of my enemy really my friend? Role of Epac signaling in cardiotoxicity induced by anticancer-treatment Recent advances in understanding to the mechanisms of anthracycline cardiotoxicity and links toward effective cardioprotection Two birds with one stone: blocking doxorubicin-induced cardiotoxicity and cancer growth with PI3Ky inhibition Real-time optical mapping of acute mitochondrial dysfunction with chemotherapy agent doxorubicin in Langendorff-perfused rat hearts Potential protective effect of inorganic nitrate/nitrite against anthracycline-induced cardiotoxicity in vitro and in vivo	David Lefer (Atlanta, USA), Eric Morel (Châtenay-Malabry, France) <i>Eric Morel (Châtenay-Malabry, France)</i> <i>Martin Sterba (Hradec Králové, Czech Republic)</i> <i>Emilio Hirsch (Torino, Italy)</i> <i>Maeve Elder (London, UK)</i> <i>Hana Jansova (Hradec Králové, Czech Republic)</i>
	Session 18 - Myocardial permeability, interstitial edema and cardiac function Extracellular matrix drives vessel navigation Cardiac aquaporins Myocardial edema: A translational view Ischemic postconditioning prevents ischemia-induced acute myocardial dilation and limits cardiac edema in a clinically relevant, closed-chest pig model of acute myocardial infarction A role for Focal Adhesion Kinase in the stimulation of glucose transport in cardiomyocytes	Cécile Duplâa (Bordeaux, France), Alain Lacampagne (Montpellier, France) <i>Frederico Bussolino (Torino, Italy)</i> <i>Arkadi Rutkovskiy (Oslo, Norway)</i> <i>David Garcia-Dorado (Barcelona, Spain)</i> <i>Tamas Baranyai (Budapest, Hungary)</i> <i>Christophe Montessuit (Geneva, Switzerland)</i>
12:00-13:30	Lunch and Posters	Atrium & Cour d'honneur

13:30-15:00

Session 19 - Compartmentation of cardiac signaling

A-kinase anchoring proteins: molecular regulators of cardiac remodeling

Real-time visualization of cyclic nucleotide signaling in cardiomyocytes

Cyclic nucleotide signaling compartmentation in normal and failing heart

Selective phosphorylation of PKA targets after β -adrenergic receptor stimulation impairs myofilament in Mybpc3-targeted HCM mouse model

Cyclic GMP-mediated phosphorylation of titin reduces passive tension in rat cardiomyocytes

Lea M. Delbridge (Melbourne, Australia), Rodolphe Fischmeister (Châtenay-Malabry, France)

Dario Diviani (Lausanne, Switzerland)

Viacheslav O. Nikolaev (Hamburg, Germany)

Grégoire Vandecasteele (Châtenay Malabry, France)

Aref Najafi (Amsterdam, The Netherlands)

Selene J. Sollie (Oslo, Norway)

Session 20 - Imaging the heart from within

Superresolution meets physiology: EC coupling super-hubs in atria

Fluorescence imaging of cardiac mitochondria in ischaemia and reperfusion

Multimodality imaging of the adult murine heart

Nanoscale changes in ryanodine receptor organisation JPH2 transgenic mice

A new experimental model for magnetic resonance investigations of an isolated working heart from a large animal

Gemma Vilahur (Barcelona, Spain), Sean M Davidson (London, UK)

Stephan E. Lehnart (Göttingen, Germany)

Sean M Davidson (London, UK)

Daniel J. Stuckey (London, UK)

Christian Soeller (Auckland, NZ)

Fanny Vaillant (Bordeaux, France)

Session 21 - Joint SASCAR-ISHR-ES Session - Cardiovascular biomaterials and regenerative medicine

Injectable biomaterials therapy for heart failure

The fascinating journey of stem cell therapy for heart disease

Engineered heart tissues for cardiac repair

In vivo implantation of mesenchymal stem cells-tissue engineered grafts fail to produce blood vessel-like structure

Human aortic valve interstitial cells can differentiate into myofibroblasts and initiate calcification

Thomas Eschenhagen (Hamburg, Germany), Sandrine Lecour (Cape Town, South Africa)

Neil H. Davies (Cape Town, South Africa)

Massimiliano Gnechi (Pavia, Italy)

Thomas Eschenhagen (Hamburg, Germany)

Megan Swim (Bristol, UK)

Katarina Zihlavnikova (Oslo, Norway)

15:45

Social event & Dinner, at Château Giscours

- Amphitheater Broca
- Amphitheater Durkeim
- Amphitheater E

8:30-9:00

Poster Display**Cour d'honneur**

09:00-10:00

Plenary session 5 - President's Distinguished Lecture

**A central role of MG53 in metabolic syndrome and diabetic cardiomyopathy -
Rui-Ping Xiao (Beijing, China)**

Chair: Elisabeth Murphy (Columbia, MD, USA) -

Co-chair: Rodolphe Fischmeister (Châtenay-Malabry, France)

10:00-10:30

Coffee break and Posters**Atrium & Cour d'honneur**

10:30-12:00

Session 22 - Gene therapy of cardiac diseases

Emilio Hirsch (Torino, Italy),

Finn Olav Levy (Oslo, Norway)

Lucie Carrier (Hamburg, Germany)

Gene therapy for hypertrophic cardiomyopathy

Gene therapy for arrhythmia control

Olympia Bikou (Heidelberg, Germany)

Gene therapy in heart failure

Alexander Lyon (London, UK)

Evaluation of Mybpc3 gene therapy in juvenile Mybpc3-targeted knock-in mice

Giulia Mearini (Hamburg, Germany)

Physiopathology of the ubiquitin Ligase E3, PDZRN3, in the development of dilated cardiomyopathies

*Mathieu Pernot (Pessac, France)***Session 23 - Control of cardiac performance by sarcomere proteins**

Renée Ventura-Clapier (Châtenay-

Malabry, France), Jean-Jacques Mercadier (Châtenay-Malabry, France)

Sarcomere mutations and energetic cost of cardiac contraction

Jolanda van der Velden (Amsterdam, The Netherlands)

Sarcomere active drugs in heart failure

Zoltan Papp (Debrecen, Hungary)

Troponin I residues as molecular determinants of cardiac myocyte performance

Joseph M. Metzger (Minneapolis, MN, USA)

In vivo pathophysiology of hypertrophic cardiomyopathy in a highly prevalent 25 bp deletion mutation in MYBPC3

Diederik W. D. Kuster (Maywood, IL, USA)

A mutation in the glutamate-rich region of RBM20 causes dilated cardiomyopathy through missplicing of titin and impaired Frank-Starling mechanism

*Ilse Bollen (Amsterdam, The Netherlands)***Session 24 - MicroRNAs for regenerative therapy of the heart**

Manual Mayr (London, UK), Joost P. G.

Sluiter (Utrecht, The Netherlands)

Dnmt3a downregulation by miR29a promotes adult cardiac progenitors differentiation in vitro and in vivo in infarcted hearts

Jean-Luc Balligand (Brussels, Belgium)

Myocyte proliferation by microRNAs to enhance cardiac repair microRNAs in cardiac regeneration

Serena Zacchigna (Trieste, Italy)

Regulation of nuclear ephrin-B1 in cardiomyocytes: impact on heart regeneration

Eva van Rooij (Utrecht, The Netherlands)

HDL-induced cardioprotection against ischemia reperfusion involves miRNAs

*Marie Cauquil (Toulouse, France)**Sarah Pedretti (Geneva, Switzerland)*

12:00-13:30

Lunch and Posters**Atrium & Cour d'honneur**

13:30-15:00

Session 25 - Epigenetic control of cardiac remodeling

Histone deacetylase signaling in cardioprotection
Altered epigenetic profiles at enhancers and promoters during cardiac hypertrophy
Epigenetics and noncoding RNAs in heart failure
Stabilization of alpha-cardiac actin preserves myocardial integrity and protects against oxidative stress in SRF-related dilated cardiomyopathy
An objective whole-cell imaging method for quantitative assessment of protein nucleo-cytoplasmic shuttling in live adult cardiomyocytes

Federica del Monte (Boston, MA, USA),
Anne Garnier (Châtenay-Malabry, France)
Joahannes Backs (Heidelberg, Germany)
Roberto Papait (Rozzano, Italy)

Leon de Windt (Maastricht, The Netherlands)
Aude Angelini (Paris, France)

Kate L. Weeks (London, UK)

Session 26 - Sex differences in cardiovascular pathophysiology

Sex-based differences in cardiovascular diseases
Sex differences in cardiovascular pathophysiology - implications to pharmacotherapy
Sex differences in excitation-contraction coupling
Gender differences in morphological and functional aspects of exercise-induced left ventricular hypertrophy in a rat model
Gender Differences in the Reaction of Autonomic Nervous System to Remote Ischaemic Preconditioning in Young Healthy Subjects

Renée Ventura-Clapier (Châtenay-Malabry, France), Jean-François Arnal (Toulouse, France)
Jane-Lyse Samuel (Paris, France)
Vera Regitz-Zagrosek (Berlin, Germany)

Susan E. Howlett (Halifax, Canada)
Attila Olah (Budapest, Hungary)

Igor Khaliulin (Bristol, UK)

Session 27 - Circadian rhythms in cardiac repair: new mechanisms for an old phenomenon

Circadian rhythms in cardiac regeneration: experimental basis for a clinical phenomenon
Mesp1 controls the speed and polarity of cardiovascular progenitor migration
Angiogenesis is regulated by the circadian clock
Ephrin-B1 blocks adult cardiomyocyte proliferation and cardiac tissue regeneration
Endothelial progenitor cells, VEGF and cytokines in patients with angiographically significant coronary artery diseases and chronic heart failure

Rui-Tai Hui (Beijing, China), Manuel Galiñanes (Barcelona, Spain)
Linda W. van Laake (Utrecht, The Netherlands)

Giuseppe Chiapparo (Bruxelles, Belgium)

Yihai cao (Stockholm, Sweden)
Céline Mias (Toulouse, France)

Ka Khmel'nitskaya (Saint-Petersburg, Russian Federation)

15:00-16:00

Plenary session 6 - Posters award ceremony
Closing session



Gala Dinner & Social Event Information

On Thursday, a **Gala dinner** will be held at the **CAPC**, one of the first art centers in France, which has now become the Contemporary Art Museum of Bordeaux, a beautiful place, down town by the Garonne river.

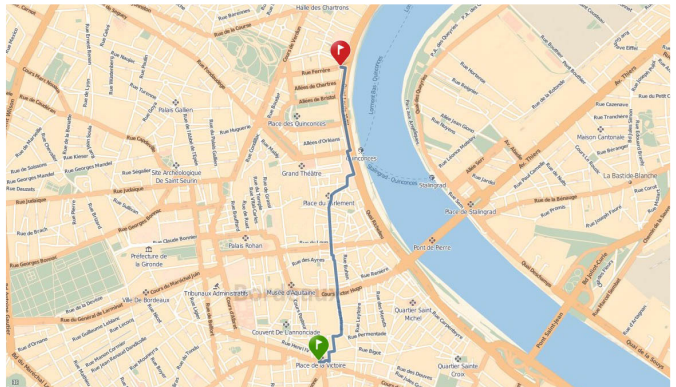


To get there from the conference site, with the tram line B:

Place Victoire stop

Direction Bassins à flot

CAPC stop



On Friday, we will host a **social event at Château Giscours**, Grand Cru Classé in 1855, in Margaux, with a guided visit of the winery with Henri Favre, wine-maker, and wine tasting. To finish, a dinner of local produce will be held at La Ferme Suzanne.

Departure at 3:45PM, from Place de la Victoire

Departure from Giscours at 9:30PM



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