

# Second German-French Symposium

Friday, November 22<sup>nd</sup>, 2013  
German Embassy  
13/15 avenue Franklin-Roosevelt  
Paris 8<sup>e</sup>

# Frontiers of Cardiovascular Research



**8.30 – 8.45 AM**

**Welcome** - Stefan Kern (German Embassy), Alain Tedgui (Aviesan), Walter Rosenthal (MDC)

## **SESSION 1**

**Chair:**

## **KIDNEY AND VASCULAR DISORDERS**

**Alain Tedgui (PARCC, Paris)**

08.45 – 09.15 AM

**Dominik Müller (MDC, Berlin)**

Novel ideas about salt, blood pressure, and the immune system

09.15 – 09.45 AM

**Pierre-Louis Tharaux (PARCC, Paris)**

Unraveling local mediators that break glomerular epithelial cell tolerance to immune and metabolic injury

**09.45 – 10.30 AM**

**Coffee-break / Poster Session**

## **SESSION 2**

**Chair:**

## **INFLAMMATION/IMMUNITY IN CARDIO-METABOLIC DISEASES**

**Alain Tedgui (PARCC, Paris)**

10.30 – 11.00 AM

**Knut Mai (Charité, Berlin)**

Hormonal regulation of long-term body weight maintenance

11.00 – 11.30 AM

**Mathias Treier (MDC, Berlin)**

Neuroendocrine control of metabolism

11.30 – 12.00 AM

**Christoph Knosalla (DHZB, Berlin)**

Serotonin catabolism and its role in induction of immunological tolerance

12.00 – 12.30 AM

**Antonino Nicoletti (Inserm unit 698, Paris)**

Mechanism and impact of lymphoid neogenesis in atherothrombotic diseases

12.30 – 1.00 PM

**Ziad Mallat (PARCC, Paris)**

New roles for B lymphocytes in cardiovascular diseases

**1.00 – 2.00 PM**

**Lunch/ Poster Session**

**SESSION 3**

**Chair:**

**CARDIOLOGY**

**Norbert Hübner (MDC, Berlin)**

2.00 – 2.30 PM

**Michel Ovize (CarMen, Lyon)**

ER - Mitochondria interactions in myocardial ischemia reperfusion injury

2.30 – 3.00 PM

**Christof Stamm (DHZB, Berlin)**

Cardiac cell therapy: time to give up?

3.00 – 3.30 PM

**Stéphanie Barrère-Lemaire (IGF, Montpellier)**

New therapeutic strategies for the treatment of myocardial ischemia-reperfusion injury

3.30 – 4.00 PM

**Elke Dworatzek (Charité, Berlin)**

Sex differences in cardiac hypertrophy and underlying mechanisms

4.00 – 4.30 PM

**Rodolphe Fischmeister (Inserm unit 769, LabEx LERMIT, Châtenay-Malabry)**

Cyclic AMP signaling and phosphodiesterases in normal and diseased heart

**4.30 – 5.30 PM**

**Chair:**

**Funding Opportunities Round-table Discussion**

**Christian Boitard (Aviesan, Paris)**

Inserm instruments for bilateral cooperation

**Claire Giry**, head of the Inserm's department of regional and european policy

German French road map

**Jean-Michel Heard**, Biology and Health sector, Ministry of higher education and research (MESR)

European and bilateral funding programs

**Bertrand Schwartz**, head of Biology and Health department at the National Research Agency (ANR)

**Stefan Kern**, Science and Technology Counselor at the German Embassy in Paris

**5.30 PM**

**Finishing Remarks: Christian Boitard (Aviesan, Paris)**

**[www.mdc-aviesan.de](http://www.mdc-aviesan.de)**

**1 - Study the role of Cxcl5 in homeostasis and inflammation**

Katrin Nitz, Lorena Gomez, Anthony Rousselle, Fatimunnisa Quadri, Michael Bader, Johan Duchene  
Max Delbrück Center for Molecular Medicine, Berlin

**2 - Characterization of CD74 in human placenta and its influence on development of preeclampsia**

Lukasz Przybyl, Müller, Dechend  
ECRC - Max Delbrück Center for Molecular - Medicine, Berlin

**3 - The role of immunoproteasome subunit LMP7 in atherosclerosis**

Max Poetzsch  
Charité-Universitätsmedizin Berlin

**4 - Interleukin 23-signaling protects from myocardial inflammation and reduces mortality in experimental myocardial infarction**

K. Pappritz, K. Savvatis, D. Westermann, P.M. Becher, D. Lindner, H.-D. Volk, H.-P. Schultheiss, C. Tschöpe  
Charité-Universitätsmedizin Berlin

**5 - The alarmines S100A8 and S100A9 are crucial factors by experimental and human myocarditis and inflammatory dilatative cardiomyopathy**

I. Müller, P.M. Becher, D. Lindner, S. Van Linthout, D. Westermann, T. Vogl, H.-P. Schultheiss, C. Tschöpe  
Charité-Universitätsmedizin Berlin

**6 - Cardiac-derived proliferating cells for the treatment of heart failure**

Kapka Miteva et al.  
Charité-Universitätsmedizin Berlin

**7 - Role of estrogen receptors in 17 $\beta$ -estradiol mediated sex-specific collagen I and III regulation in rat cardiac fibroblasts**

Sandra Kunze  
Charité-Universitätsmedizin Berlin

**8 - Metabolic effects of natriuretic peptides**

Nina Schlüter, Joachim Spranger  
Charité-Universitätsmedizin Berlin

**9 - FISH in medical biofilms: novel in situ insights and therapeutic consequences**

Judith Kikhney, Benjamin Gocht, Annett Petrich, Pablo Rojas, Julia Schulze, Smita Sutrave, Alexandra Wießner, Roland Hetzer, Annette Moter  
German Heart Institute Berlin

**10 - Analysis of cell-matrix interactions using decellularized human cardiac extracellular matrix and stem cells**

Barbara Oberwallner, Andreja Brodarac, Petra Anić, Marion Haag, Michael Sittinger, Tomo Saric, Karen Bieback, Klaus Neef, Christof Stamm  
German Heart Institute Berlin

**11 - Factors released by cord blood-mesenchymal stromal cells protect endothelial cells through activation of STAT3 signaling**

Andreas M. Bader, Kyung-Sun Kang, Andreas Kurtz, Christof Stamm  
German Heart Institute Berlin

**12 - Heart failure impairs the behavior of human neonatal stem cells in vitro**

Kristin Klose, Rajika Roy, Andreja Brodarac, Andreas Kurtz, Kyung-Sun Kang, Karen Bieback, Yeong-Hoon Choi, Christof Stamm  
German Heart Institute Berlin

**13 - Enhanced cardioprotection mediated by epithelial-mesenchymal transition induced amnion epithelial cells**

Rajika Roy, Marian Kukucka, Daniel Messroghli, Desiree Kunkel, Andreja Brodarac, Kristin Klose, Peter Moritz Becher, Jeong-Chan Ra, Sung-Keun Kang, Yeong-Hoon Choi, Christof Stamm  
German Heart Institute Berlin



**14 - Effects of amniotic membrane transplantation in a mouse model of myocardial infarction**

Rajika Roy, Tobias Haase, Andreja Brodarac, Dietlind Zohnhöfer-Momm, Christof Stamm  
German Heart Institute Berlin

**15 - Linking High-End Patient Care to Basic Science**

DHZB Biobank  
German Heart Institute Berlin

**16 - G-protein signaling and epigenetics in smooth muscle cell plasticity and vascular disease**

Till Althoff  
German Heart Institute Berlin

**17 - Adaptive Growth and Remodeling of Transplanted Hearts in Children**

Eva Delmo Walter, Stephan Schubert, Christoph Knosalla, Christof Stamm, Roland Hetzer  
German Heart Institute Berlin

**18 - Regulation of T follicular Helper cells by CD8<sup>+</sup> regulatory T cells reduces pro atherogenic Tertiary Lymphoid Organ formation in apolipoprotein E KO mice**

Marc Clement, Kevin Guedj, Francesco Andreatta, Marion Morvan, Jamila Khallou-Laschet, A-T Gaston, H.-J. Kim, Harvey Cantor, Giuseppina Caligiuri, Antonino Nicoletti  
Inserm Unit 698, Paris

**19 - Phosphodiesterase type 2 is Upregulated in Human Failing Hearts and Blunts  $\beta$ -Adrenergic Responses in Cardiomyocytes**

Hind Mehel<sup>1</sup>, Julius Emons<sup>2</sup>, Christiane Vettel<sup>2</sup>, Katrin Wittköpper<sup>2</sup>, Matthias Dewenter<sup>2</sup>, Susanne Lutz<sup>2</sup>, Samuel Sossalla<sup>2</sup>, Patrick Lechène<sup>1</sup>, Audrey Varin<sup>1</sup>, Viacheslav O Nikolaev<sup>3</sup>, Grégoire Vandecasteele<sup>1</sup>, Ali El-Armouche<sup>2</sup> and Rodolphe Fischmeister<sup>1</sup>  
<sup>1</sup>Inserm UMR-S 769, LabEx LERMIT, IFR141 IPSIT, Université Paris-Sud 11, Faculté de Pharmacie, Châtenay-Malabry, France

<sup>2</sup>Department of Pharmacology, University Medical Center Göttingen (UMG) Heart Center, Georg August University Medical School, Göttingen, Germany

<sup>3</sup>Department of Cardiology and Pneumology, University Medical Center Göttingen (UMG) Heart Center, Georg August University Medical School, Göttingen, Germany

**20 - Role of SIRT1-PGC1 $\alpha$  pathway in the proliferation of pulmonary artery smooth muscle cells**

Giada Zurlo, Christophe Lemaire and Vladimir Veksler  
Inserm Unit 769, LabEx LERMIT, Paris

**21 - BH4 peptide attenuates myocardial ischemia/reperfusion injury in vivo**

Prisca Boisquerin<sup>1</sup>, Aurélie Covinhes<sup>2</sup>, Alicia Franck-Miclo<sup>2</sup>, Bernard Lebleu<sup>3</sup>, Joël Nargeot<sup>2</sup>, Stéphanie Barrère-Lemaire<sup>2</sup>

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<sup>2</sup>Institut de Génomique Fonctionnelle, UMR 5203, U661, Université Montpellier 1, 2, 141 rue de la Cardonille, 34094 Montpellier cedex 5, France

<sup>3</sup>Université Montpellier 2, UMR 5235 CNRS, DIMNP, Place Eugene Bataillon, 34095 Montpellier cedex 5, France

**22 - Dissection of the activation functions (AF-1 and AF-2) of the estrogen receptor alpha in vivo: uncoupling beneficial vascular/metabolic and proliferative effects**

S.Handgraaf\*, A.Abot\*, C.Fontaine\*, A.Fabre, E.Riant, M.Buscato, F.Boudou, M-J.Fouque, F.Lenfant, P.Gourdy, J-F.Arnal  
Inserm Unit 1048, Institute of Cardiovascular and Metabolic Diseases, Toulouse

**23 - PPAR $\gamma$  activity in podocytes promotes resistance to crescentic glomerulonephritis**

Carole Hénique Gréciet, Guillaume Bollée, Marine Milon, Pierre-Louis Tharaux  
Inserm Unit 970, Paris - Cardiovascular research Center



**24 - Vacuolar proton pump a4 subunit is critical for inner ear development and renal function**

Nicolas Picard, Jean-Christopher Hennings, Antje Huebner, Tobias Stauber, Hannes Maier, Dennis Brown, Thomas Jentsch, Rosa Vargas-Poussou, Dominique Eladari, Christian Huebner  
Inserm Unit 970, Paris - Cardiovascular research Center

**25 - Regulation of Na<sup>+</sup> and K<sup>+</sup> transport in the distal nephron by WNK1**

Bettina Serbin, Sarah Vacle, Christelle Soukaseum, Régine Chambrey, Dominique Eladari and Juliette Hadchouel  
Inserm Unit 970, Paris - Cardiovascular research Center

**26 - Efferocytosis and post-ischemic cardiac remodeling**

Kiave-Yune HoWangYin, Clément Cochain, Min Yin, José Vilar, Xavier Loyer, Chantal Boulanger, Ziad Mallat, Jean-Sébastien Silvestre  
Inserm Unit 970, Paris - Cardiovascular research Center

**27 - Role of classical monocytes in abdominal aortic aneurysm (AAA) development in mice**

Safa Mellak, Bruno Esposito, Alain Tedgui, Ziad Mallat, Stéphane Potteaux  
Inserm Unit 970, Paris - Cardiovascular research Center

