

**10<sup>th</sup> Dutch-German Joint Meeting  
of the Molecular Cardiology Working Groups**



**February 2-4, 2012**

**Abbey Hotel Rolduc, Kerkrade (NL)**

## Organization

**Leon de Windt (Maastricht)**

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**Programm Committee:**

**Ali el Armouche (Göttingen)**

**Johannes Backs (Heidelberg)**

**Wolfgang Rottbauer (Ulm)**

**Dirk Duncker (Rotterdam)**

**Rudolf de Boer (Groningen)**

**Website:**

**Benjamin Meder (Heidelberg)**

## Thursday 02-02-2012

13:00 – 14:45 Registration and get-together  
14:45 – 15:00 Opening: Leon de Windt (Maastricht, Netherlands)

### Session 1: Stem cells

Chairs: Robert Passier (Leiden, Netherlands)  
Wolfram Zimmerman (Göttingen, Germany)

15:00 – 15:20 Arne Hansen (Hamburg, Germany)  
Generation of Engineered heart tissue from human pluripotent stem cells

15:20 – 15:40 Katrin Streckfuß-Bömeke (Göttingen, Germany)  
Comparative analysis of induced pluripotent stem cell-derived functional cardiomyocytes from different cell sources of the patient

15:40 – 16:00 Malin Jonsson (Utrecht, Netherlands)  
Sodium channels in human stem cell-derived cardiomyocytes

16:00 – 16:20 Milena Bellin (Leiden, Netherlands)  
induced pluripotent stem cells: generation of cardiac disease models

16:20 – 16:40 Thomas Braun (Bad Nauheim, Germany)  
Cardiomyocyte dedifferentiation and cardiac stem cells during cardiac repair and disease

16:40 – 17:00 break

### Key Note Lecture

17:00 – 18:00 Stephane Hatem (Paris, France)  
Cardiac arrhythmias: beyond channelopathies

18.30 – 20.00 Drinks: Rococolibrary

20:00 Dinner: Abbey Hotel Rolduc

## Friday 03-02-2012

### Session 2: Cardiogenesis

Chairs: Jeroen Bakkers (Utrecht, Netherlands)  
Wolfgang Rottbauer (Ulm, Germany)

8:30 – 8:50 Andreas Kispert (Hannover, Germany)  
Signaling pathways in epicardial development

8:50 – 9:10 Gilbert Weidinger (Dresden/Ulm, Germany)  
Mechanisms of zebrafish heart regeneration

9:10 – 9:30 Pim van der Harst (Groningen, Netherlands)  
association meta-analysis in >55,000 subjects of correlated EKG traits detects novel loci that influence electrically active left ventricular cardiac mass" by Pim van der Harst on behalf of the QRS voltage consortium

9:30 – 9:50 Silke Sperling (Berlin, Germany)  
Systems biology of cardiogenesis

9:50 – 10:10 Vincent Christoffels (Amsterdam, Netherlands)  
Genome-wide identification of cardiac T-box factor targets reveals an Scn5a/10a enhancer functionally affected by a genetic variation

10:10 – 11:00 break

### Session 3: Arrhythmias

Chairs: Paul Volders (Maastricht, Netherlands)  
Dobromir Dobrev (Heidelberg, Germany)

11:00 – 11:20 Reza Wakili (Munich, Germany)  
Role of microRNAs in atrial – fibrillation remodeling

11:20 – 11:40 Niels Voigt (Mannheim, Germany)  
Proarrhythmic calcium signaling in atrial fibrillation

11:40 – 12:00 Jordi Heijman (Maastricht, Netherlands)  
Compartmentalized signaling in ion-channel function and long – QT syndrome

12:00 – 12:20 Maartje Noorman (Utrecht, Netherlands)  
Molecular regulation of conduction via connexins

12:20 – 12:40 Guiscard Seeböhm (Bochum, Germany)  
Role of I(Ks) channels in congenital and acquired disease

### Poster Session (12:40 – 14:10)

Moderators: Stephane Heymans, Dirk Duncker, Yigal Pinto, Erik Biessen, Toon van Veen, Carol Ann Remme, Harald Schmidt (Netherlands); Larissa Fabritz, Susanne Lutz, Christian Kupatt, Eric Schulze-Bahr, Thomas Wieland (Germany)

13:00 – 14:00 Lunch/Buffer

**Session 4: Vascular: atherosclerosis - angiogenesis**

Chairs: Esther Lutgens (Amsterdam, Netherlands)  
Florian Limbough (Hannover, Germany)

14:10 - 14:30 Manuel Mayr (London, UK)  
Proteomics and Lipidomics Combined in Vascular Research

14:30 – 14:50 Arndt Siekmann (Munster, Germany)  
Vessel in motion. Vessel assembly and development in Zebrafish

14:50 – 15:10 Tilmann Ziegler (Munich, Germany)  
Angiopoetin-2 alters vessel stability and cardiac function

15:10 – 15:30 Oliver Soehnlein (Imcar, Germany)  
Neutrophils and atherosclerosis

15:30 – 15:50 Menno de Winther (Amsterdam, Netherlands)  
Macrophage subtypes and atherosclerosis

15:50 – 16:30 break

## **Young investigator session – young talks to old**

Chairs: Leon de Windt (Netherlands)  
Johannes Backs (Germany)

7 minutes presentation + 3 minutes discussion

16:30 – 16:40 NN

16:40 – 16:50 NN

16:50 – 17:00 NN

17:00 – 17:10 NN

17:10 – 17:20 NN

17:20 – 17:30 NN

17:30 – 17:40 NN

18:30 excursion/sight seeing

## **Saturday 04-02-2012**

**08.30 – 09.00 Presentation Dr. Clark**

### **Session 5: Heart failure and cardiac function**

Chairs: Rudolf de Boer (Groningen, Netherlands)  
Ali el Armouche (Göttingen, Germany)

- 09:00 – 09:20 Patrick Most (Heidelberg, Germany)  
Genetically-targeted therapies for heart failure: Steps to clinical practice
- 09:20 – 09:40 Lucie Carrier (Hamburg, Germany)  
RNA-based repair of gene defects in hypertrophic cardiomyopathy
- 09:40 – 10:00 Stephan Neef (Göttingen, Germany)  
 $\beta$ -adrenergic stimulation and CaMKII activation:  
New crosstalk mechanisms
- 10:00 – 10:20 Esther Creemers (Amsterdam, Netherlands)  
the role of microRNA15 in heart failure
- 10:20 – 10:40 Fatih Arslan (Utrecht, Netherlands)  
Enhancing Cardiac Repair – targeting I/R injury and adverse remodeling
- 10:40 – 11:00 Aeilko Zwinderman (Amsterdam, Netherlands)  
Systems Medicine, dynamics of metabolic pathways involved in chronic heart failure
- 10:40 – 11:00 **break**

### **Young investigator award and poster price 2012**

Chairs: Leon de Windt (Netherlands)  
Ali el Armouche, Johannes Backs (Germany)

- 11:00 – 11:00 Announcement of the 2012 winners
- 11:10 – 11:15 Closing Remarks, Leon de Windt (Maastricht); next meeting
- 11:15 – **Take away Lunch & Adjourn**