

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 Zimmermann (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 NHS Lecture Stéphane Hatem (Paris, France)
Cardiac arrhythmias: beyond channelopathies

18.00 – 19.00 Drinks: Cellar Bar

19:00 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 – 10:30 **break**

Session 3: Arrhythmias

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

10:30 – 10:50 Reza Wakili (Munich, Germany)
Role of microRNAs in atrial – fibrillation remodeling

10:50 – 11:10 Niels Voigt (Mannheim, Germany)
Proarrhythmic calcium signaling in atrial fibrillation

11:10 – 11:30 Jordi Heijman (Maastricht, Netherlands)
Compartmentalized signaling in ion-channel function and long – QT syndrome

11:30 – 11:50 Maartje Noorman (Utrecht, Netherlands)
Molecular regulation of conduction via connexins

11:50 – 12:10 Guiscard Seeböhm (Bochum, Germany)
Role of I(Ks) channels in congenital and acquired disease

12.10 – 12.20 **Group Photograph**

Poster Session (12:20 – 13.30)

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)

12.30 – 13:30 Lunch/Buffer

Session 4: Vascular: atherosclerosis - angiogenesis

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

13:30 - 13:50 Manuel Mayr (London, UK)
 Proteomics and Lipidomics Combined in Vascular Research

13:50 – 14:10 Arndt Siekmann (Munster, Germany)
 Vessel in motion. Vessel assembly and development in Zebrafish

14:10 – 14:30 Tilmann Ziegler (Munich, Germany)
 Angiopoetin-2 alters vessel stability and cardiac function

14:30 – 14:50 Oliver Soehnlein (Imcar, Germany)
 Neutrophils and atherosclerosis

14:50 – 15:10 Menno de Winther (Amsterdam, Netherlands)
 Macrophage subtypes and atherosclerosis

15:10 – 15:30 break

Young investigator session – young talks to old

Chairs: Leon de Windt (Maastricht, Netherlands)
Ali El- Armouche (Göttingen, Germany)

7 minutes presentation + 3 minutes discussion

- 15:30 – 15:40 **Anke Tijssen (Amsterdam, Netherlands)**
Variants in the 3'UTR of KCNQ1 modify disease severity in LQT1 patients by creating binding sites for miR-378
- 15:40 – 15:50 **Martin Weinreuter (Heidelberg, Germany)**
CaM Kinase II mediates maladaptive post-infarct remodeling but not acute myocardial ischemia/reperfusion injury
- 15:50 – 16:00 **Mathias Hohl (Homburg, Germany)**
Histone deacetylase 4 controls reactivation of ANP in heart failure by mediating rapid demethylation of H3K9
- 16:00 – 16:10 **Teresa Trenkwalder (Munich, Germany)**
Thymosin beta 4: a regulator of actin-mediated gene transcription
- 16:10 – 16:20 **Maria Patapia Zafeiriou (Göttingen, Germany)**
Role of Erythropoietin signaling in the biology of mouse cardiac progenitor cells
- 16:20 – 16:30 **Martine de Boer (Rotterdam, Netherlands)**
Aging Aggravates Cardiac Dysfunction in Severe, but not in Mild, Pressure-Overload
- 16:30 – 16:40 **Michael Didie (Goettingen, Germany)**
Parthenogenetic stem cells as a cellular basis for engineered heart tissue: Implantation-study in a murine model of myocardial infarction
- 16:40 – 16:50 **Cathelijne van den Berg (Leiden, Netherlands)**
Pluripotent Stem Cell Models of a Human Cardiac Sodium Channelopathy

17:15 Bus transfer to Maastricht for sightseeing and dinner

22.30 Bus transfer to Rolduc

Saturday 04-02-2012

Session 5: Heart failure and cardiac function

Sponsored by Scisense

Chairs: Rudolf de Boer (Groningen, Netherlands)
Johannes Backs (Heidelberg, Germany)

- 08.30 – 09.00 James Clark (London, UK)
Determining changes in cardiac function in the infarcted & remodeled rodent heart
- 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)
 β -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

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