

General Information

Oral Sessions

Each paper is allotted 10 minutes for presentation followed by discussion (5 minutes). Presentations will be loaded directly on the computer in the lecture room prior to each session from CD-ROM or USB devices. The PC in the lecture room will run Windows and Office. Personal laptop computers may be connected to the projector in the lecture room, if required (e.g. for MAC users).

Poster Sessions

Poster dimensions are 84.1 cm (width) x 118.9 cm (height) portrait orientation (AO poster size). Posters should be mounted between 8.45 and 9.00 am.

Language

The official conference language is German. Presentations may be prepared in English or German.

Accreditation

The meeting is accredited by the Landesärztekammer Baden-Württemberg.

Heidelberg Heart Rhythm

Welcome to the Heidelberg Heart Rhythm Symposium 2012! The Heidelberg Heart Rhythm Symposium was initiated by the Department of Cardiology of Heidelberg University with the aim of creating an international scientific platform for professional development and networking in the field of cardiac arrhythmias. Its purpose is to further basic, translational and clinical research in all areas related to heart rhythm disorders. Those areas specifically include genetics, biophysics, cellular electrophysiology, pharmacology, computational modeling, imaging, interventional clinical electrophysiology, and cardiac pacemakers/ICDs. The meeting will provide a forum at which physicians, scientists and allied health professionals have a unique opportunity to learn about cutting edge advances directly from the most innovative investigators in cardiac electrophysiology.

Scientific Committee

Dierk Thomas
Rüdiger Becker

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Location

Medical University Hospital Heidelberg
Lecture Hall and Foyer
Im Neuenheimer Feld 410
69120 Heidelberg
Germany

Location and Parking



HERZ ZENTRUM
Universitätsklinikum Heidelberg



University Hospital Heidelberg

Heidelberg Heart Rhythm 2012

Contemporary Issues in Pathophysiology and Therapy

Saturday, January 14th, 2012
9.00 am – 5.00 pm



Dear Colleagues and Friends,

It is with great pleasure that we invite you to attend the upcoming **1st Heidelberg Heart Rhythm Symposium** on January 14, 2012 at the Medical University Hospital Heidelberg.

Discover and learn more about molecular mechanisms, diagnosis, and latest developments in the treatment of cardiac arrhythmias!

The primary objective of the meeting is to provide scientists and health care professionals with an in-depth view of the current state of the art in the field of heart rhythm research and therapeutics in a scholarly and collegial atmosphere. The Heidelberg Heart Rhythm Symposium will address cardiac electrophysiology from genetics and molecular mechanisms to innovative diagnostics and therapeutics. Attendees of this intensive and highly focused symposium will have the unique opportunity to discuss and debate in an interactive environment the most up-to-date basic, translational and clinical advances in the field.

We hope that you will join us in Heidelberg for an exciting symposium.



D. Thomas



R. Becker



H. A. Katus

Scientific Program

9.00 – 9.15 am Welcome and Introduction
Dierk Thomas, Rüdiger Becker, Hugo A. Katus

9.15 – 10.30 am Oral Session I (Lecture Hall)
Chair: Edgar Zitron

9.15 – 9.30 am Molekulare Mechanismen der Regulation des kardialen I_{K1}-Stroms durch cAMP/PKA abhängige Signalwege
Claudia Seyler

9.30 – 9.45 am Circulating anti-KCNQ1 autoantibodies are associated with QT interval shortening in dilated cardiomyopathy
Jin Li

9.45– 10.00 am Fluch oder Segen? In silico Modellierung elektrophysiologischer Effekte von I_{Kur} Inhibitoren
Eberhard Scholz

10.00 – 10.15 am Biological heart rate reduction through genetic suppression of G α_s protein in the sinoatrial node
Patrick Lugenbiel

10.15 – 10.30 am Zentrale Rolle von PKC-beta und Kir2.2 Kanaluntereinheit für die Regulation des kardialen I_{K1}-Stroms durch die Proteinkinase C
Daniel Scherer

10.30 – 11.00 am Coffee Break

11.00 – 12.15 pm Poster Session I (Foyer)
Chairs: Eberhard Scholz, Patrick Schweizer

Board 1 Modulation von Kir2-Kanälen durch CamKII-Inhibitoren
Nadja Joss

Board 2 Regulation des atrialen Kaliumkanals Kv1.5 durch Isoenzyme der PKC
Fathima Fischer

Board 3 Drug-associated apoptosis
Ingo Staudacher

Board 4 In vitro and in vivo models for the generation of a biological pacemaker
Rasmus Rivinius

Board 5 Development of stem cell-derived cells with cardiac pacemaker-like characteristics
Fabrice Darche

Board 6 Analyse von Kir2/AKAP Signalkomplexen
Christoph Köpple

Board 7 Differential regulation of two-pore domain potassium channels by the antiarrhythmic drug vernakalant
Claudia Seyler

Board 8 Assessment of atrial scarring for characterization of atrial tachycardia after catheter ablation of atrial fibrillation
Ann-Kathrin Rahm

12.15 – 1.15 pm Lunch

1.15 – 2.30 pm Poster Session II (Foyer)
Chairs: Rüdiger Becker, Claudia Seyler

Board 9 Wirkung von Dronedaron auf kardiale Zwei-Porendomänen-Kaliumkanäle
Felix Wiedmann

Board 10 SR-59230, ein neuer Antagonist von Kir2-Kanälen
Claudia Seyler

Board 11 The novel hERG R744P mutant associated with hereditary long QT syndrome 2
Parwez Aidery

Board 12 Von der Ionenkanalmutation zum Oberflächen-EKG: In silico Modellierung von Long QT-Mutationen
Julian Maier

Board 13 Differential regulation of human K2P2.1 K⁺ leak channel variants by carvedilol
Jana Kisselbach

Board 14 Molecular remodeling of infarct border zone myocardium associated with monomorphic ventricular tachycardia in a porcine model
Kamilla Kelemen

Board 15 Establishment of a mouse model for human Brugada syndrome: In vivo analysis of the SCN5a loss of function mutation G1408R
Thomas Fink

Board 16 Robotic navigation for catheter ablation of paroxysmal and persistent atrial fibrillation
Dierk Thomas

2.30 – 3.00 pm Coffee Break

3.00 – 4.15 pm Oral Session II (Lecture Hall)
Chair: Dierk Thomas

3.00 – 3.15 pm Genetische Formen von Vorhofflimmern
Fathima Fischer

3.15 – 3.30 pm Kardiales Mapping von Zwei-Porendomänen-Kaliumkanälen
Constanze Schmidt

3.30 – 3.45 pm Molekulare Grundlagen der inhibitorischen Effekte von Klasse III Antiarrhythmika auf den kardialen IK1-Strom
Panagiotis Xynogalos

3.45 – 4.00 pm Aquaporin-1 Kanäle als Ziel von post-translationalen Regulationsmechanismen: Potentielle physiologische Implikationen
Edgar Zitron

4.00 – 4.15 pm Multilevel AV-Block: Entwicklung eines automatisierten Algorithmus zur Differenzierung zwischen Vorhofflimmern und Vorhofflattern
Eberhard Scholz

4.15 – 4.45 pm Ongoing Clinical Trials

4.45 – 5.00 pm Summary and Adjourn