

The Na⁺/Ca²⁺ Exchanger in the Patho-Physiology of Cardiac Arrhythmia, Ischemia and Heart Failure

GUEST LECTURE by



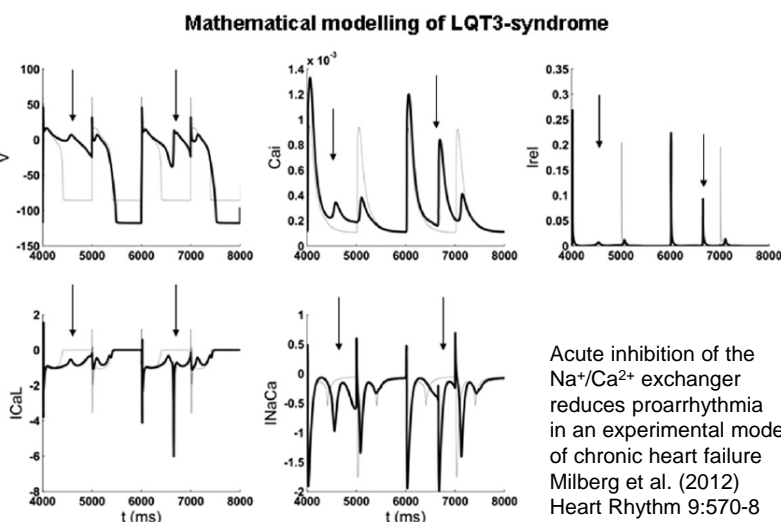
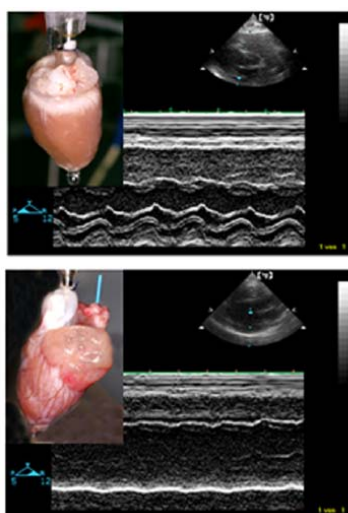
PD Dr. Christian Pott
Department of Cardiology and Angiology,
Division of Rhythmology,
University Clinics Münster, Germany

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SR 07.11, Preclinics
(Harrachgasse 21, 1st floor) MUG

Abstract

The Na⁺/Ca²⁺ exchanger (NCX) is the main Ca²⁺ extrusion mechanism of the cardiac myocyte and thus is crucial for maintaining Ca²⁺ homeostasis. It is involved in the regulation of several parameters of cardiac excitation contraction coupling, such as cytosolic Ca²⁺ concentration, repolarization and contractility. Increased NCX activity has been identified as a mechanism promoting heart failure, cardiac ischemia and most importantly arrhythmia. Transgenic mice as well as pharmacological interventions have been used to support the idea of using NCX inhibition as a future pharmacological strategy to treat cardiovascular disease.



Curriculum Vitae

Priv.-Doz. Dr. med. Christian Pott

Department of Cardiology and Angiology
 Division of Rhythmology,
 University Clinics Münster
 Albert-Schweitzer-Campus
 48149 Münster, Germany
 tel.: +49 (0)251-83-4 76 29
 e-mail: christian.pott@ukmuenster.de



seit 12/ 2006

Professional Experience

Assistant Physician / Scientific Coworker at the Department of Cardiology and Angiology, since 2009 in the Division of of Rhythmology, University Clinics Münster

06-11/2006

DFG-Repatriate Stipend: establishment of a reserach group, University Clinics Münster

2004 – 2006

Research Assistant and DFG stipendiary at the Department of Physiology/Cardiovascular Research Laboratories, University of California, Los Angeles (UCLA)

03/2009

Academic Education

Venia legendi in Experimental Cardiology, Westphalian Wilhelms-University Münster, Medical Clinics C

08/2004

Promotion (summe cum laude) University Cologne, Medical Clinics III for Cardiology

1996 – 2003

Studies in Human Medicine, University of Cologne

Clinical Specialisation

Cardiology, clinical and interventional rhythmology (catheder ablation)

Publications

42 publications in peer reviewed journals (20 as first author)

Awards

1. Young Investigators Award of the Heart Rhythm Society (USA, 2010)
2. Promotion prize of the Westphalian Wilhelms-University Münster (2009)
3. Finalist Young Investigator Award of the German Society of Cardiology (2008)
4. Cardiovascular Scholar Award of the American Federation for Medical Research (2006)
5. Honourable Mention by the American Heart Association (AHA, 2005)
6. Astra-Zeneca Cardiovascular Scholar Award (2005)
7. Prize of the Novartis Foundation for Therapeutic Research

Grants and Scholarships

1. Institute of Interdisciplinary Medical Research Münster (IMF Po 12 06 07)
2. Novartis Foundation for Therapeutic Research
3. Industrial Funding (Sanofi-Aventis)
4. DFG-Repatriate Stipend (2006, DFG Po 1004-1/2)
5. DFG-Outgoing Scientists' Stipend (2004 DFG Po 1004-1/1)
6. Outgoing Scientists' Stipend of the Medical Faculty, University Cologne
7. Doctoral Scholarship of the Mrs. Maria Pesch Foundation

Appeal Proceedings

Ranked 2nd place in the appeal proceeding for a W1 Junior Professorship in Molecular Cardiology, Ulm, 2012

Editorials

Guest editor of the thematic issue „Calcium in cardiac pathophysiology“, Wiener Medizinische Wochenschrift, 2012
 Guest editor of the thematic issue „Novel and experimental antiarrhythmic targets“, Current Medicinal Chemistry, 2013