

Curriculum vitae

December 24, 2015

Name : Frank R. Heinzel, M.D., Ph.D.  
 Date of birth : Dec 11, 1971  
 Current Position: Attending physician, physician scientist  
 Institution : Charité Universitätsmedizin, Campus Virchow Klinik, Dept. of Cardiology  
 Address : Augustenburgerplatz 1, 13553 Berlin

**University Education**

1991 – 1998 *Medicine* (Georg-August-Universität, Göttingen, Germany)  
 2000– 2001 *Master Degree in Medical Imaging* (School of Medicine, KU Leuven, Belgium)

**Dissertations**

2001 Medical Doctorate Degree (Dr. med.). University of Göttingen, Germany  
 2010 Doctorate in Biomedical Sciences (Ph.D.). K.U. Leuven, Belgium (Prof. Karin Sipido).

**Habilitation**

10/2008 Venia Docendi for Internal Medicine, Medical University of Graz

**Occupational career**

2016 Professor for Molecular Cardiology (W2) at the Dept. of Cardiology, Campus Virchow-Klinikum, Charité Universitätsmedizin Berlin  
 2015 Attending interventional cardiologist and head of outpatient clinic at the Dept. of Cardiology, Campus Virchow-Klinikum, Charité Universitätsmedizin Berlin  
 10/2013-12/2014 Associate Professor, Medical University of Graz  
 2013 Specialization in Cardiology  
 10/2011- 4/2014 Vice director of the Ludwig Boltzmann Institute for Translational Heart Failure Research in Graz  
 7/2010-10/2013 Assistant Professor, Medical University of Graz  
 2010 Specialization in Internal Medicine  
 9/2007 – 5/2010 Resident physician in the Dept of Cardiology, Medical University of Graz (Chair: Prof. Dr. med. Burkert Pieske)  
 7/2005 – 9/2007 Resident physician in the Dept. of Cardiology and Pneumology, University of Göttingen, Germany (Chair: Prof. Dr. med. Gerd Hasenfuß)  
 8/2001 – 6/2005 Ph.D.-Student in the Lab of Experimental Cardiology der K.U. Leuven (Promotor: Prof. K. Sipido) and at the Institute of Pathophysiology, University of Essen (shared PhD, Co-Promotor: Prof. Dr. med. Dr. h.c. Gerd Heusch)  
 7/2000 – 7/2001 Research fellow at the Lab of Experimental Cardiology, K.U. Leuven, Belgium (Prof. K. Sipido MD, PhD)  
 1/1999 – 6/2000 Resident physician at the Dept. of Cardiology, University of Essen, Germany (Chair : Prof Dr. med. R. Erbel)

**Academic functions**

03/2011 – to date Faculty member PhD Program Molecular Medicine at the Medical University of Graz

**Editorial Board**

Journal of Cardiovascular Pharmacology, Medicine

**Clinical Research Activity**

*Principle investigator (IIT):* GRAF - Graz Study on the Risk of Atrial Fibrillation  
 (clinicaltrials.gov NCT01461434)

*Principle investigator (Sponsored):* ENSURE in AF, REVEAL AF, OPTI-MIND

**Selected Publications**

[see Pubmed for all](#)

Heinzel FR, Oeing C. Growing a More Healthy Heart. *Acta Physiol (Oxf)*. 2015 Dec 15. doi: 10.1111/apha.12643. [Epub ahead of print]

Hammer KP, Hohendanner F, Blatter LA, Pieske BM, **Heinzel FR**. Variations in local calcium signaling in adjacent cardiac myocytes of the intact mouse heart detected with two-dimensional confocal microscopy. *Front Physiol*. 2015 Jan 12;5:517

Targeting cardiac hypertrophy: toward a causal heart failure therapy. Bisping E, Wakula P, Poteser M, **Heinzel FR**. *J Cardiovasc Pharmacol*. 2014 Oct;64(4):293-305

Sedej S, Schmidt A, Denegri M, Walther S, Matovina M, Arnstein G, Gutsch EM, Windhager I, Ljubojević S, Negri S, **Heinzel FR**, Bisping E, Vos MA, Napolitano C, Priori SG, Kockskämper J, Pieske B. Subclinical abnormalities in sarcoplasmic reticulum Ca(2+) release promote eccentric myocardial remodeling and pump failure death in response to pressure overload. *J Am Coll Cardiol*. 2014;63:1569-79.

Hohendanner, F; Ljubojevic, S; Macquaide, N; Sacherer, M; Sedej, S; Biesmans, L; Wakula, P; Platzer, D; Sokolow, S; Herchuelz, A; Antoons, G; Sipido, K; Pieske, BM; **Heinzel, FR**. Intracellular Dyssynchrony of Diastolic Cytosolic [Ca<sup>2+</sup>] Decay in Ventricular Cardiomyocytes in Cardiac Remodeling and Human Heart Failure. *Circ Res*. 2013;113:527-38.

Sacherer, M; Sedej, S; Wakula, P; Wallner, M; Vos, MA; Kockskämper, J; Stiegler, P; Sereinigg, M; von Lewinski, D; Antoons, G; Pieske, BM; **Heinzel, FR**; CONTICA investigators. JTV519 (K201) Reduces Sarcoplasmic Reticulum Ca(2+) Leak and Improves Diastolic Function in vitro in Ouabain-Induced Cellular Ca(2+) Overload in Murine and Human Non-Failing Myocardium. *Br J Pharmacol*. 2012; 167:493-504.

**Heinzel FR**, MacQuaide N, Biesmans L, Sipido K. Dyssynchrony of Ca<sup>2+</sup> release from the sarcoplasmic reticulum as subcellular mechanism of cardiac contractile dysfunction. *J Mol Cell Cardiol*. 2011;50(3):390-400.

Sedej S, **Heinzel FR**, Walther S, Dybkova N, Wakula P, Groborz J, Gronau P, Maier LS, Vos MA, Lai FA, Napolitano C, Priori SG, Kockskämper J, Pieske B. Na<sup>+</sup>-dependent SR Ca<sup>2+</sup> overload induces arrhythmogenic events in mouse cardiomyocytes with a human CPVT mutation. *Cardiovasc Res*. 2010;87:50-9.

**Heinzel FR**, Gres P, Boengler K, Duschin A, Konietzka I, Rassaf T, Snedovskaya J, Meyer S, Skyschally A, Kelm M, Heusch G, Schulz R. Inducible nitric oxide synthase expression and cardiomyocyte dysfunction during sustained moderate ischemia in pigs. *Circ Res*. 2008;103:1120-7.

**Heinzel FR**, Bito V, Biesmans L, Wu M, Detre E, von Wegner F, Claus P, Dymarkowski S, Maes F, Bogaert J, Rademakers F, D'hooge J, Sipido K. Remodeling of T-tubules and reduced synchrony of Ca<sup>2+</sup> release in myocytes from chronically ischemic myocardium. *Circ Res*. 2008;102:338-46.

**Heinzel FR**, Bito V, Volders PG, Antoons G, Mubagwa K, Sipido KR. Spatial and temporal inhomogeneities during Ca<sup>2+</sup> release from the sarcoplasmic reticulum in pig ventricular myocytes. *Circ Res*. 2002;91:1023-30.