



## **Prof. Dr. Wolfgang Rottbauer**

(\*11.12.1967)

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### **Curriculum vitae**

- 1987-1989    Medical School, University of Regensburg
- 1989-1994    Medical School, Julius-Maximilians-University Würzburg
- 1992-1993    Medical School, Columbia University, New York, USA
- 1994         MD thesis in Cardiology, Julius-Maximilians-University Würzburg
- 1994-1997    Resident and Research fellow, Cardiology, University of Heidelberg
- 1997-1998    Resident and Research fellow, Cardiology, University of Lübeck
- 1998-2002    Postdoctoral scientist, Harvard Medical School, MGH, CVRC (Prof. M.C. Fishman)
- 2002-2008    Head, Molecular genetics group, University of Heidelberg
- 2004-2006    Board Certification in Internal Medicine and Cardiology
- 2004         Attending physician, Department of Cardiology, University of Heidelberg
- 2008         Vice Chair, Department of Cardiology, University of Heidelberg
- Since 2010    Head, Department of Internal Medicine II, Ulm University

### **Research fields**

Genetic and molecular pathways in cardiac development and disease, high throughput forward and reverse genetic and small compound screens in zebrafish, human cardiovascular genetics, cardiac imaging and interventional cardiology.

### **Funding**

DFG: RO 2173/3-2, FOR1228: RO 2173/4-2, RO 2173/5-1 and IGradU Ulm (PhD program);

BMBF: NGFNplus, Insight-DCM;

EU: INHERITANCE;

others: Boehringer Ingelheim Ulm University BioCenter (BIU) grant

## Special achievements / awards / honors

|             |   |
|-------------|---|
| 1998 – 2000 | Research grant by the DFG (RO2173/1)  |
| 2000 – 2002 | Trainings grant by the American Heart Association   |
| 2003        | Oskar-Lapp-Preis by the Deutsche Gesellschaft für Kardiologie (German Cardiac Society)            |
| 2003 – 2005 | Hengstberger Research Grant by the Deutsche Gesellschaft für Kardiologie (German Cardiac Society) |

## Selected publications (10 most important publications of the last 10 years)

1. Wundrak S, Paul J, Ulrici J, Hell E, Geibel MA, Bernhardt P, **Rottbauer W**, Rasche V. Golden Ratio Sparse MRI using Tiny Golden Angles. **Magn Reson Med**. 2015 Jul 7. doi: 10.1002/mrm.25831
2. Paul J, Wundrak S, Bernhardt P, **Rottbauer W**, Neumann H, Rasche V. Self-Gated Tissue Phase Mapping using Golden Angle Radial Sparse SENSE. **Magn Reson Med**. 2015 Mar 11. doi: 10.1002/mrm.25669
3. Kessler M, Berger I M, Just S, and **Rottbauer W**. (2015) Loss of dihydrolipoyl succinyltransferase (DLST) leads to reduced resting heart rate in the zebrafish. *Basic Res Cardiol* 110, 14
4. Tibiletti M, Paul J, Bianchi A, Wundrak S, **Rottbauer W**, Stiller D, Rasche V. Multi-stage three-dimensional UTE lung imaging by image-based self-gating. **Magn Reson Med**. 2015 May 3. doi: 10.1002/mrm.25673
5. Kessler M, Just S, **Rottbauer W** (2012) Ion flux dependent and independent functions of ion channels in the vertebrate heart: lessons learned from zebrafish. **Stem cells international** 2012:462161
6. Just S, Meder B, Berger IM, Etard C, Trano N, Patzel E, Hassel D, Marquart S, Dahme T, Vogel B, Fishman MC, Katus HA, Strahle U, **Rottbauer W**. The myosin-interacting protein smyd1 is essential for sarcomere organization. **J Cell Sci**. 2011;124:3127-3136
7. Meder B, Huttner IG, Sedaghat-Hamedani F, Just S, Dahme T, Frese KS, Vogel B, Kohler D, Kloos W, Rudloff J, Marquart S, Katus HA, **Rottbauer W**. Pinch proteins regulate cardiac contractility by modulating integrin-linked kinase-protein kinase b signaling. **Mol Cell Biol**. 2011;31:3424-3435
8. Just S, Berger IM, Meder B, Backs J, Keller A, Marquart S, Frese K, Patzel E, Rauch GJ, Katus HA, **Rottbauer W**. Protein kinase d2 controls cardiac valve formation in zebrafish by regulating histone deacetylase 5 activity. **Circulation**. 2011;124:324-334
9. Hassel D, Dahme T, Erdmann J, Meder B, Hüge A, Stoll M, Just S, Hess A, Ehlermann P, Weichenhan D, Grimmmler M, Liptau H, Hetzer R, Regitz-Zagrosek V, Fischer C, Nurnberg P, Schunkert H, Katus HA, **Rottbauer W**. Nexilin mutations destabilize cardiac z-disks and lead to dilated cardiomyopathy. **Nat Med**. 2009;15:1281-1288
10. Hassel D, Scholz EP, Trano N, Friedrich O, Just S, Meder B, Weiss DL, Zitron E, Marquart S, Vogel B, Karle CA, Seemann G, Fishman MC, Katus HA, **Rottbauer W**. Deficient zebrafish ether-a-go-go-related gene channel gating causes short-qt syndrome in zebrafish reggae mutants. **Circulation**. 2008;117:866-875