

## Conrad, Marcus

### General Information

Name: Conrad, Marcus  
Academic title: Dr. rer. nat.  
  
Gender: Male  
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Institute of Developmental Genetics  
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Current position/status: Group Leader/permanent position



### Academic Education and Qualifications

1992-1998 Studies in Biology, Konstanz University  
1998-2001 PhD thesis (summa cum laude), GSF - Institute of Clinical Molecular Biology and Tumor Genetics, Munich/ Ludwig-Maximilians-University Munich, Germany  
2001-2004 Post-Doc, GSF, Institute of Clinical Molecular Biology and Tumor Genetics, Munich, Germany  
2005-2006 Post-Doc, Karolinska Institute, Department of Oncology/Pathology, Stockholm, Sweden  
2007 Guest Researcher, Yamagata University, Tsuruoka, Japan

### Professional Career

2004-2005 Project Leader, GSF, Department of Comparative Medicine, Neuherberg  
2005-2009 Group Leader, Helmholtz Zentrum München, Institute of Clinical Molecular Biology and Tumor Genetics  
2009-2010 Laboratory Head, Bayer Schering Pharma AG, Berlin, Germany  
2010-2012 Head of Transgenic Unit, Deutsches Zentrum für Neurodegenerative Erkrankungen (DZNE), Munich, Germany  
2012-present Group Leader, Helmholtz Zentrum München, Institute of Developmental Genetics, Neuherberg

### Professional Awards

2007 JSPS travel fellowship award (to work at Yamagata University, Japan)  
2005/2006 EMBL travel fellowship award (Post-Doc at Karolinska Institute, Sweden)

### Publications (5 most important publications out of 40, H-index 16) (\*, equal contribution)

1. Horstkotte J, Perisic T, Schneider M, Lange P, Schroeder M, Kiermayer C, Hinkel R, Ziegler T, Mandal PK, David R, Schulz S, Schmitt S, Widder J, Sinowatz F, Becker BF, Bauersachs J, Naebauer M, Franz WM, Jeremias I, Brielmeier M, Zischka H, Conrad M\*, Kupatt C\* (2011) Mitochondrial thioredoxin reductase is essential for early postischemic myocardial protection *Circulation* 124, 2892-2902

2. Conrad M, Sandin A, Förster H, Seiler A, Frijhoff J, Dagnell M, Bornkamm GW, Rådmark O, Hooft van Huijsduijnen R, Aspenström P, Böhmer F, Ostman A (2010)  
12/15-lipoxygenase-derived lipid peroxides control receptor tyrosine kinase signaling through oxidation of protein tyrosine phosphatases  
Proc Natl Acad Sci U S A 107, 15774-15779
3. Seiler A, Schneider M, Förster H, Roth S, Wirth EK, Culmsee C, Plesnila N, Kremmer E, Rådmark O, Wurst W, Bornkamm GW, Schweizer U, Conrad M (2008)  
Glutathione peroxidase 4 senses and translates oxidative stress into 12/15-lipoxygenase dependent- and AIF-mediated cell death  
Cell Metab 8, 237-248
4. Jakupoglu C, Przemeck GKH, Schneider M, Moreno SG, Mayr N, Hatzopoulos AK, Hrabé de Angelis M, Wurst W, Bornkamm GW, Brielmeier M, **Conrad M (2005)**  
Cytoplasmic thioredoxin reductase is essential for embryogenesis but dispensable for cardiac development  
**Mol Cell Biol** 25, 1980-1988
5. **Conrad M**, Jakupoglu C, Moreno SG, Lippl S, Banjac A, Schneider M, Beck H, Hatzopoulos AK, Just U, Sinowatz F, Schmahl W, Chien KR, Wurst W, Bornkamm GW, Brielmeier M **(2004)**  
Essential role for mitochondrial thioredoxin reductase in hematopoiesis, heart development, and heart function  
**Mol Cell Biol** 24, 9414-9423