

## Meyer, Andreas

### General Information

Name: Meyer, Andreas  
Academic title: Prof. Dr. rer. nat.  
  
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Current position/status: Professor (W2)]



### Academic Education and Qualifications

1985-1991 Studies in Biology, University of Münster  
1991 Diploma (Biology/Plant Sciences), Prof. M. Popp, University of Münster  
1995 Ph.D. (Dr. rer. nat. Plant Sciences), Prof. M. Weisenseel, University of Karlsruhe  
2008 Postdoctoral lecturing qualification (Habilitation Botany), Heidelberg University

### Professional Career

1991-1995 Ph.D. research project in plant electrophysiology, University of Karlsruhe, Prof. M. Weisenseel  
1995-1996 Postdoctoral Research Fellow, Institute for Botany I, University of Karlsruhe, Prof. M. Weisenseel  
1997-2000 Postdoctoral Research Fellow, Department of Plant Science, University of Oxford, UK, Dr. Mark Fricker  
2000-2002 Postdoctoral Research Fellow, Institute for Forest Botany and Tree Physiology, Chair of Tree Physiology, University of Freiburg, Prof. H. Rennenberg  
2002-2003 Lectureship, Molecular Cell Biology of Plants, University of Karlsruhe  
2003-2010 Scientific Assistant and Junior Group Leader, Heidelberg Institute for Plant Science (HIP), Heidelberg University, Prof. R. Hell  
since 2010 Professor of Chemical Signalling, University of Bonn

### Publications (5 most important publications out of >40 publications, H-index 21)

1. **Meyer AJ**, Brach T, Marty L, Kreye S, Rouhier N, Jacquot J-P, Hell R (2007)  
Redox-sensitive GFP in *Arabidopsis thaliana* is a quantitative biosensor for the redox potential of the cellular glutathione redox buffer  
**Plant J** 52, 973–986
2. Gutscher M, Pauleau A-L, Marty L, Brach T, Wabnitz GH, Samstag Y, **Meyer AJ**, Dick TP (2008)  
Real-time imaging of the intracellular glutathione redox potential  
**Nature Meth** 5, 553-559

3. Marty L, Siala W, Schwarzländer M, Fricker MD, Wirtz M, Sweetlove LJ, Meyer Y, Meyer AJ, Reichheld J-P, Hell R **(2009)**  
The NADPH-dependent thioredoxin system constitutes a functional backup for cytosolic glutathione reductase in *Arabidopsis*  
**Proc Natl Acad Sci USA** 106, 9109-9114
4. Maughan SC, Pasternak M, Cairns N, Kiddle G, Brach T, Jarvis R, Haas F, Niewland J, Lim B, Müller C, Salcerdo-Sora E, Kruse C, Orsel M, Hell R, Miller AJ, Bray P, Murray JAH, Foyer CH, **Meyer AJ**, Cobbett CS **(2010)**  
Plant homologs of the *Plasmodium falciparum* chloroquine-resistance transporter, *PfCRT*, are required for glutathione homeostasis and stress responses  
**Proc Natl Acad Sci USA** 107, 2331-2336
5. **Meyer AJ**, Dick TP **(2010)**  
Fluorescent protein-based redox probes  
**Antioxid Redox Signal** 13, 621-650