Schwarzländer, Markus (associated)

General Information

Last name, First name:	Schwarzländer, Markus
Academic title:	D.Phil.
Gender:	Male
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E-Mail address:	markus.schwarzlander@uni-bonn.de
Current position/status:	Emmy-Noether Group Leader

Academic Education and Qualifications

2002-2005	Undergraduate studies in Chemistry and Biochemistry, LMU Munich
2005-2009	PhD studies (D.Phil.), Magdalen College & Department of Plant Sciences, University of Oxford, UK

Professional Career

2008-2011	Junior Research Fellow, New College & Department of Plant Sciences, University of Oxford, UK
2011-2013	Postdoctoral Researcher, INRES – Chemical Signalling, University of Bonn
since 2013	Emmy-Noether Group Leader of the "Plant Energy Biology" Lab, INRES – Chemical Signalling, University of Bonn

Professional Awards

2005	Sainsbury PhD Studentship by the Gatsby Charitable Foundation
2007	Doctoral Fellowship by the "Studienstiftung des deutschen Volkes"
2008	Weston Junior Research Fellowship at New College, Oxford
2009	Edward Chapman Research Prize from Magdalen College, Oxford
2013	Emmy-Noether Fellowship by the German science foundation (DFG)

Publications (5 selected publications out of 14, H-index 10, *corresponding author)

1. **Schwarzländer M**, Finkemeier I **(2013)**
   Mitochondrial energy and redox signalling in plants
   Antiox Redox Signal *18*, 2122-2144

2. **Schwarzländer M***, Murphy MP, Duchen MR, Logan DC, Fricker MD, Halestrap AP, Müller FL, Rizzuto R, Dick TP, Meyer AJ, Sweetlove LJ **(2012)**
   Mitochondrial "flashes": a radical concept repHined
   Trends Cell Biol *22*, 503-508

3. **Schwarzländer M**, Logan DC, Johnston IG, Jones NS, Meyer AJ, Fricker MD, Sweetlove LJ **(2012)**
Pulsing of membrane potential in individual mitochondria: a stress-induced mechanism to regulate respiratory bioenergetics in *Arabidopsis*
Plant Cell *24*, 1188-1201

4. **Schwarzländer M***, Logan DC, Fricker MD, Sweetlove LJ* **(2011)**
The circularly permuted yellow fluorescent protein cpYFP that has been used as a superoxide probe is highly responsive to pH but not superoxide in mitochondria: implications for the existence of superoxide "flashes"
Biochem J *437*, 381-387

5. **Schwarzländer M**, Fricker MD, Sweetlove LJ **(2009)**
Monitoring the in vivo redox state of plant mitochondria: Effect of respiratory inhibitors, abiotic stress and assessment of recovery after oxidative challenge
Biochim Biophys Acta *1787*, 468-75