CURRICULUM VITAE

NAME	Elke Stroeher, Dipl. Biologist
NATIONALITY	German
BUSINESS ADDRESS	4th Floor Bayliss (formally MCS) Building M316 The University of Western Australia 35 Stirling Highway Crawley 6009 WA
PHONE	+61 8 6488-4453
E-MAIL	estroh@cyllene.uwa.edu.au

EDUCATION and RESEARCH EXPERIENCE

08/2009 – present	**Post-Doctoral Research Fellow** in the ARC Centre of Excellence in Plant Energy Biology, Perth, Australia
15/07/2008 – 06/2009	**Post-Doctoral Research Fellow** in the Department of Biochemistry and Physiology of Plants, Prof. Dr. KJ Dietz, University of Bielefeld, Germany
01/2005 – 10/07/2008	**PhD student (grade: with distinction, Summa cum laude)** in the Department of Biochemistry and Physiology of Plants, University of Bielefeld, Germany Thesis title: „*Redox proteome of the photosynthetic cell*“ Thesis advisor: Prof. Dr. Karl-Josef Dietz
8/2004 – 12/2004	**Student research assistant** at the Department of Biochemistry and Physiology of Plants, Bielefeld University, Germany
8/2003 – 08/2004	**Diploma student, subject Biology (grade: 1.0 with distinction)**, Bielefeld University, Germany Exam subjects: Bio-Organic Chemistry, Cell-and Developmental-Biology, Microbiology and Biotechnology, Plant Biochemistry and Physiology Diploma thesis at the Department of Biochemistry and Physiology of Plants: “Impact of ABA and ethylene on the gene expression of 2-Cys Prx A and other antioxidative genes”, Thesis advisor: Prof. Dr. Karl-Josef Dietz and Dr. Margarete Baier

AWARDS

01/2005- 12/2007	Scholarship of the „International Graduate School for Bioinformatics and Genome Research“, Bielefeld University, Germany
08/2009 – 07/2011	Post-Doctoral Research Fellowship of the German Research Foundation (DFG)

Awarded Nov 2010 Australian Postdoctoral Fellowship (APD) for three years within the Australian Research Council (ARC) Discovery Projects 2011

LIST OF PUBLICATIONS

1. Baier M., **Stroeher E**. & Dietz K. J. (2004) The acceptor availability at photosystem I and ABA control nuclear expression of 2-Cys peroxiredoxin-A in Arabidopsis thaliana. Plant Cell Physiol. 45(8):997-1006.

2. Stroeher E. & Dietz K. J. (2006) Concepts and approaches towards understanding the cellular redox proteome. Plant Biol (Stuttg). 8(4):407-418.

3. Heiber I., **Stroeher E**., Raatz B., Busse I., Kahmann U., Bevan M. W., Dietz K. J. & Baier M. (2007) The redox imbalanced mutants of Arabidopsis differentiate signaling pathways for redox regulation of chloroplast antioxidant enzymes. Plant Physiol. 143(4):1774-1788.

4. Stroeher E. & Dietz K. J. (2008) The dynamic thiol-disulphide redox proteome of the Arabidopsis thaliana chloroplast as revealed by differential electrophoretic mobility. Physiol Plant. 133(3):566-583.

5. Shaikhali J., Heiber I., Seidel T., **Stroeher E**., Hiltscher H., Birkmann S., Dietz K. J. & Baier M. (2008) The redox-sensitive transcription factor Rap2.4a controls nuclear expression of 2-Cys peroxiredoxin A and other chloroplast antioxidant enzymes. BMC Plant Biol. 8:48.

6. Bräutigam K., Dietzel L., Kleine T., **Stroeher E**., Wormuth D., Dietz K. J., Radke D., Wirtz M., Hell R., Dörmann P., Nunes-Nesi A., Schauer N., Fernie A. R., Oliver S. N., Geigenberger P., Leister D. & Pfannschmidt T. (2009) Dynamic plastid redox signals integrate gene expression and metabolism to induce distinct metabolic states in photosynthetic acclimation in Arabidopsis. Plant Cell. 21(9):2715-2732.

7. Stroeher E., Wang X. J., Roloff N., Klein P., Husemann A. & Dietz K. J. (2009) Redox-dependent regulation of the stress-induced zinc-finger protein SAP12 in Arabidopsis thaliana. Mol Plant. 2(2):357-367.

8. Muthuramalingam M., Seidel T., Laxa M., Nunes de Miranda S. M., Gärtner F., **Stroeher E**., Kandlbinder A. & Dietz K. J. (2009) Multiple redox and non-redox interactions define 2-cys peroxiredoxin as a regulatory hub in the chloroplast. Mol Plant. 2(6):1273-1288

9. Muthuramalingam M., Dietz K. J. & **Stroeher E**. (2010) Thiol-disulfide redox proteomics in plant research. Methods Mol Biol. 639:219-238.

10. Tomaz T., Bagard M., Pracharoenwattana I., Lindén P., Lee C.P., Carroll A.J., **Stroeher E.**, Smith S.M., Gardeström P., Millar A.H. (2010) Mitochondrial malate dehydrogenase lowers leaf respiration and alters photorespiration and plant growth in Arabidopsis. Plant Physiol. 154(3):1143-1157.

11. Couturier J., **Stroeher E.**, Albetel A.N., Roret T., Muthuramalingam M., Tarrago L., Seidel T., Tsan P., Jacquot J.P., Johnson M.K., Dietz K.J., Didierjean C., Rouhier N. Arabidopsis chloroplastic glutaredoxin C5 as a model to explore the molecular determinants for iron-sulfur cluster binding into glutaredoxins. J Biol Chem. 2011 Jun 1. [Epub ahead of print] PMID: 21632542.