



Preface

Preface to the 2014 Aquaporins Special Issue



The aim of this special issue is to give an up-to-date overview of the current status in the aquaporin field. As such the articles included in this volume span a variety of topics, including phylogeny, physiology and disease, regulation, structure and characterization of protein:protein interactions. It is my hope that this volume will serve not only as a summary, but also as an inspiration to further scientific advances in this important research field.



Susanna Törnroth-Horsefield is an Associate professor at the Department of Biochemistry and Structural Biology, Lund University, Sweden. Susanna earned her Ph.D. in Biochemistry from Uppsala University in 2002. Her thesis described the crystal structures of two respiratory chain complexes from *E. coli*; the anaerobic complex Formate dehydrogenase-N and the aerobic complex Succinate dehydrogenase (SQR, Complex II). After her Ph.D. she moved to Gothenburg where she did a post-doc in the group of Prof. Richard Neutze, first at Chalmers University of Technology and later at University of Gothenburg. In 2006, Susanna was awarded a Junior Research fellowship by the Swedish Research Council, which was followed up by a Senior Research fellowship in 2010. During 2013, she took up her current position at Lund University where she is setting up a new research group. Susanna's research aims at understanding the structural mechanisms behind regulation of eukaryotic aquaporins. Her work includes the crystal structures of the gated plant aquaporin SoPIP2;1 as well as human AQP5. She is currently focusing on elucidating the structural principles that governs cellular sorting of human aquaporins and how this relates to disease.

Susanna Törnroth-Horsefield

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