

Prof. Dr. Martha Ludwig, The University of Western Australia



Department of Biology

Research Interests

C4 photosynthesis evolved from the ancestral C3 photosynthetic pathway. C4 plants outcompete C3 species in hot, dry and/or high light environments, and while anatomical, genetic and biochemical changes were required for C4 evolution, details of the changes are largely unknown. Comparisons of closely related C3, C4 and C3-C4 species at the molecular level has allowed us to identify changes responsible for the evolution of several C4 proteins.

Research Experiences

I completed my PhD at McGill University in Montreal, Canada. I then moved to Australia for postdoctoral work, first at The University of Melbourne, then as an Australian Research Council Post-doctoral Research Fellow at The Queensland University of Technology and finally at The Australian National University (ANU). I was a lecturer at ANU and Macquarie University, before moving to The University of Western Australia in 2003.

Nationality

English

Stay at HHU

07/18 - 11/18

Cooperation partner at HHU

Faculty of Mathematics and Natural
Sciences

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