

Name THOMAS ROACH
Date of Birth 23 September 1980
Nationality British
Address Department of Botany, University of Innsbruck,
 Sternwartestraße 15, A-6020 Innsbruck, AUSTRIA
e-mail thomas.roach@uibk.ac.at
Website http://www.uibk.ac.at/botany/units_research_groups/biochemistry.html.en
Phone / fax +43-0512-507-51030 / +43-0512-507-2715
Position Associate Professor, University of Innsbruck, Austria



Main areas of research

My research themes are centred on redox biology related with stress tolerance, stress signalling and metabolism. I aim to improve our understanding of cross-organelle communication during stress acclimation, predominantly using the unicellular model alga *Chlamydomonas reinhardtii*. Another focus is on desiccation tolerance in seeds and algae, and how redox changes in the desiccated state influence metabolism upon rehydration. I also strive to increase our knowledge on functional roles of seed microbiota and cross-kingdom redox signalling.

Citation Report

H-Index = 16 (Web of Knowledge, March 2022); ResearcherID, O-6940-2015; ORCID,
<http://orcid.org/0000-0002-0259-0468>

<https://scholar.google.at/citations?user=nLqkU-EAAAAJ&hl=en>

Academic qualifications

- 2018: Habilitation: Plant Physiology, University of Innsbruck, Austria
- 2009: PhD., Plant Science, University College London, UK in collaboration with Seed Conservation Department, RBG Kew, UK, under supervision of Dr Ilse Kranner
- 2005: MSc. (dist. / cum laude), Plant Conservation, University of Sussex, UK
- 2003: BSc. (2:1), Biology, University College London, UK

Employment history

- Since Dec 2018 Associate Professor, Unit of Functional Plant Biology in the Department of Botany, University of Innsbruck, Austria
- 2012-2018 Assistant Professor (Department of Botany, University of Innsbruck, Austria)
- 2010-2012 Experienced Researcher Two year Marie-Curie Post-doc, 'HARVEST' ITN network, (Dr Anja Krieger-Liszkay lab), CEA Saclay, Gif-Sur-Yvette, France
- 2010 Industry R&D Scientist Six months, developed molecular markers to sugar beet seed priming, Germains Seed Technology, Kings Lynn, UK

Current Projects

- 2022-2025: Photosynthesis, metabolic bottlenecks and energy regulation in alga, FFG, €360K
- 2019-2022: The role of seed microbiota in germination, FWF, €358K