

## Professor Michelle Watt

School of BioSciences, Faculty of Science, University of Melbourne, Australia

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### KEY COMPETENCES

- Scientific leadership in Canada, Australia and Germany in grain crops and root-soil resource efficiencies
- Networking and collegiate negotiation to form public and private partnerships for agriculture
- Lab to field basic research using model plants and crops to discover how plant roots function
- Training, teaching and mentoring students and early career scientists in agriculture research
- Expert in root and soil phenotyping, imaging and sensor technologies for agriculture

### POSITIONS

2020-	Adrienne Clarke Professorial Chair of Botany, University of Melbourne, Australia
2015- 2019	Professor Crop Root Physiology, University of Bonn, Faculty of Agriculture, Germany
2015 - 2019	Institute Director, Helmholtz Forschungszentrum Jülich (FZJ), Plant Sciences, Germany
2006 - 2015	Research to Senior to Principle Research Scientist, CSIRO Agriculture, Canberra, Australia
2001-2005	Post Doctoral Fellow, CSIRO Plant Industry, Canberra, Australia, funded by GRDC
2000-2001	Post Doctoral Fellow, Plant Cell Biology Group, ANU, Canberra, Australia

### HONORS AND RECOGNITION

2020-	Panel Member, Grains Research and Development Corporation, Southern Region
2015-2020	Helmholtz International Recruitment Initiative (individual), Germany
2016	Australia CRC for Polymers Chairman's Award (team)
2015	Patent- WO2015/091967A1 Superabsorbent polymer (SAP) and a biopesticide
2010, 2013, 2013	Research profiled in Nature, Science Podcast and New Scientist
2012	CSIRO award for Innovation (Field Phenotyping Roots) (team)
2008-2011	CSIRO Julius Early Career Award with Berkeley National Laboratory, USA

### PUBLICATIONS

<https://scholar.google.com/citations?user=Ey3pJhoAAAAJ&hl=en>

### NETWORKS

International Society of Root Researchers (ISRR) (Elected President) • International Plant Phenotyping Network (IPPN) Root Working Group (Elected Co-Chair) • Australian Society of Plant Scientists (Elected International Corresponding Member) • Plant Microbiomes Working Group, European Plant Sciences Organisation (EPSO) (Member) • Nutrient Use Efficiency Working Group, International Wheat Initiative (Member) • Interdrought Assembly Member

### INVITED ADVISORY AND REVIEWING ROLES

SoAR (Supporters of Agricultural Research) Global Agriculture Priorities • Australia's Agricultural Future Workshop, Australian Council of Learned Academies (ACOLA) • Australian Academy of Science: Agricultural Productivity and Climate Change Think Tank • Canada NSERC • UK BBSRC • Belgium FNRS • Israel National Science Program • CSIRO • German DFG • Finnish Academy of Science

### FUNDING AS PROJECT LEADER OR CO-LEADER (number of projects in brackets if more than one)

**Australia:** ARC, GRDC (4), ACIAR-India (2), USDA-DoE USA, MLA, Bayer-CSIRO, CRC

**Germany:** Helmholtz International Fellowship, Bayer-Juelich, Humbolt, DFG Excellence Clusters PhenoRob and CEPLAS, DFG Priority Program Rhizosphere, International Wheat Yield Partnership

### EDUCATION

PhD Plant Sciences, The Australian National University, 2000 • MSc Plant Biology, Carleton University, Ottawa, Canada, 1994 • BSc Honours, Carleton University, Ottawa, Canada, 1992