Thomas H. Roberts Curriculum vitae



PERSONAL Australian citizen, married with two children aged 17 and 15.

QUALIFICATIONS Doctor of Philosophy (PhD) in plant biochemistry (1995), University of Sydney

PhD thesis title: Glyoxylate Aminotransferases and Ureide Catabolism in the Developing

Fruits of Legumes

Bachelor of Science in Agriculture (BScAgr, Hons II Div. 1; 1989), University of Sydney

CAREER SUMMARY

I am a **plant biochemist** and a **food chemist**. I have an Australian educational background in **agricultural science**, majoring in agricultural chemistry, and a PhD in plant biochemistry. For nearly five years in the 1990s I conducted postdoctoral research in plant biochemistry and molecular biology in Scandinavia and was also employed as a copy editor. I then worked for 11 years at **Macquarie University**, Sydney, firstly as a laboratory manager and Research Fellow, and then as a Lecturer/Senior Lecturer in cell and developmental biology and in molecular plant biology.

I joined the **University of Sydney** as Senior Lecturer in 2012, expanding my teaching and research interests to include molecular plant pathology, phytochemistry and the chemistry and biochemistry of foods. I was promoted to Associate Professor in 2018. I have spent two periods on sabbatical with world-leading researchers at the **Weizmann Institute of Science** in Israel (2011) and at **Oxford University** in the U.K. (2015). My recent and current research funding was provided by the **Grains Research and Development Corporation** (GRDC), the **Australian Research Council** (ARC), and the **Bruce Veness Chandler Fund**.

CURRENT POSITIONS

Associate Professor in Food Chemistry and Biotechnology 40:40:20 (40% research, 40%

teaching, 20% governance/leadership/engagement)

Plant Breeding Institute

School of Life and Environmental Sciences (SOLES)

https://www.sydney.edu.au/science/schools/school-of-life-and-environmental-sciences.html

Faculty of Science

University of Sydney, NSW 2006, AUSTRALIA

Theme Leader for Quality Food since September 2021 Sydney Institute of Agriculture - https://sydney.edu.au/agriculture/

thomas.roberts@sydney.edu.au

https://sydney.edu.au/science/about/our-people/academic-staff/thomas-roberts.html

PREVIOUS POSITIONS

July 2015-Jan 2016 Academic Visitor with Renier van der Hoorn

Department of Plant Sciences, and Somerville College

Oxford University Oxford, U.K.

2012-2015 **Senior Lecturer** 40:40:20

Department of Plant and Food Sciences Faculty of Agriculture and Environment

University of Sydney

Jan to June 2011 Visiting Scientist with Robert Fluhr, Department of Plant Sciences, Weizmann Institute of

Science, Israel

2005-2011 Lecturer (40:40:20) and then Senior Lecturer (40:40:20) from 2009, Department of

Chemistry and Biomolecular Sciences, Macquarie University, Sydney

2004 Lecturer (40:40:20), Department of Biological Sciences, Macquarie University
2003 Lecturer (contract basis), Department of Biological Sciences, Macquarie University

2000-2004	Research Fellow with Robert D. Willows, Department of Biological Sciences, and as a laboratory manager for the Macquarie University Centre for Analytical Biotechnology,
	Macquarie University
1997-2000	Research Fellow with Jørn Hejgaard, Biochemistry and Nutrition, BioCentrum-DTU,
	Technical University of Denmark, and with Søren K. Rasmussen, Plant Research
	Department, Risø National Laboratory, Denmark
1995-1996	Research Associate with Jim Hourigan, School of Food Sciences, University of Western Sydney, and with Robert W. Sleigh, Division of Food Science and Technology, CSIRO
1994-1995	Postdoctoral Fellow with Ian Max Møller, Department of Plant Physiology, Lund University, Sweden
1989-1994	PhD Student (Alexander Hugh Thurburn PhD scholarship) supervised by Edith M. Lees and Les Copeland, Department of Agricultural Chemistry and Soil Science, University of Sydney

SUMMARY OF PEER-REVIEWED PUBLICATIONS (17 September 2025)

Book chapters 3

Referenced journal articles 79

Refereed journal articles 79 (first or last author: 54%)

Citations (Scopus) 3,689 H-index (Scopus) 32

RESEARCH FUNDING

01/07/2025 – 30/06/2028	Roberts TH, Keitel C, Bell T, Khoddami A, Cross R & van Ogtrop F. Food Quality of Australian
01/07/2023 30/00/2020	Indigenous Grains: Impacts of Plant Environment. Discovery-Projects (DP250101050),
	Australian Research Council (ARC). \$876K
05/09/2022 - 31/12/2026	Roberts TH . Effects of Crop Production Under Heat Stress and High Atmospheric CO ₂ on the
	Food Grain Chemistry of Wheat, Barley and Chickpea. Bruce Veness Chandler Fund. \$781K.
01/04/2018 - 31/03/2021	Park RF, Roberts TH & van der Hoorn RAF. Cereals and Rusts: Molecular Interactions for
	Plant Defence and Food Security. Discovery-Projects (DP180103377), Australian Research
	Council (ARC). \$510K . This project was extended to 31/12/2023 due to delays caused by Covid-19.
01/07/2016 - 30/06/2021	Roberts TH, Tan DKY & Bishop TFA. Expanding Options for Sorghum - Food and Distilling.
01/07/2010 - 30/00/2021	Grains Research and Development Corporation (GRDC) (UCS00025). \$478K for subcontract
	to the University of Sydney from Charles Sturt University (total value of GRDC grant
	\$1,539K)
30/07/2013 - 30/07/2015	Selle PH & Roberts TH. The Factors Influencing Sorghum Starch Digestibility in Broiler
	Chickens. Rural Industries Research and Development Corporation (RIRDC). \$130K
2013	Roberts TH . <i>Gene and Protein Discovery and Analysis Suite</i> . University of Sydney Faculties
	of Sciences Research Equipment and Infrastructure Scheme 2012. \$84K (Total \$164K
	including \$40K from personal 'start-up' funds and \$40K from the Faculty of Agriculture and Environment.)
2014	Roberts TH. Biochemical Analysis of Mustard Seed Samples. Consultancy agreement (6-
2014	week project) with Australian Agricultural Technologies Ltd. \$15.4K
2013	Tan DKY, Roberts TH, Bange M & Atwell BJ. The Physiology of Cotton Crop Nutrition, Shade
	and Waterlogging. Cotton Research and Development Corporation (CRDC). \$28.5K
2013	Tan D & Roberts TH. Is Slow Fermentation Activity in Hypoxic Cotton Seedlings Responsible
	for its Poor Performance under Waterlogging? Cruiser Research and Development Fund.
04/2040 44/2040	\$9.5K
04/2010 – 11/2010	Roberts TH & Atwell BJ. <i>Do Plant Growth Conditions Affect Allergen Concentrations in Peanuts?</i> Macquarie University MQLPSG Stage 1. \$9.3K
2009	Roberts TH. Functional Analysis of Plant Serpins. Macquarie University MQRDG. \$49.9K
2008	Brown L, Mabbutt B, Willows RD and Roberts TH. EF-C3: Avestin Emulsiflex-C3
	Homogeniser. Macquarie University Strategic Infrastructure Scheme – Research
	Infrastructure Block Grants. \$30.7K
2008	Tetu S, Paulsen I, Raftos D, Gillings M, Nevalainen H, Stow A, Roberts TH , Grinyer J, Hassan
	V O II II AA D / 12 DOD / 1

Scheme – Research Infrastructure Block Grants. **\$79.3K**

K & Holley M. Real-time PCR Instrument. Macquarie University Strategic Infrastructure

2008	Ahn J-W & Roberts TH . The Functional Characterization of Plant Serpins. Macquarie University MQPGRF. \$4K
01/12/2008 – 30/11/2009	Atwell BJ & Roberts TH. Can the Wild Relatives of Modern Rice be Domesticated for Human Applications? Australian Flora Foundation. \$13.2K
01/01/2008 - 31/12/2008	Roberts TH . Molecular Mouse Traps in Plants: Control of DNA Damage and Programmed Cell Death. Macquarie University Safety Net. \$19.1K
2007	Brown L, Paulsen I, Roberts TH & Mabbutt B. <i>Nanodrop 8000 Spectrometer</i> . Macquarie University Strategic Infrastructure Scheme – Research Infrastructure Block Grants. \$20K
2007	Brown L, Nevalainen H, Mabbutt B, Berquist P, Stokes H, Jamie J & Roberts TH . <i>ELS - Controlled-Temperature Incubator & PCR Optimisation Facility</i> . Macquarie University Strategic Infrastructure Scheme – Research Infrastructure Block Grants. \$55.3K
2007	Atwell BJ, Hughes L, Leishman M, Lusk C, Medlyn B & Roberts TH . <i>Installation of Lighting for Six Glasshouses</i> . Macquarie University Strategic Infrastructure Scheme – Research Infrastructure Block Grants. \$40K
01/01/2007 – 31/12/2007	Hayes P, Cordwell S, Herbert B, Djordjevic M, Baker M, Malloy M, Karuso P, Liu F, Roberts TH , Willows RD, Jamie J & Nevalainen H. <i>Structural Elucidation by Chemical Degradation Mass Spectrometry Using a Linear Ion Trap with Electron Transfer Dissociation</i> . Linkage-Infrastructure Equipment and Facilities Scheme (LIEF), Australian Research Council (ARC) (LE0775529). \$300K
2006	Nelson P, Gore D, Herbestein M, Jamie I, McRae C, Roberts TH , Strezov V & Willows RD. <i>Gas Chromatography-Mass Spectrometry Instrument for Small Molecule Research Programs</i> . Macquarie University Strategic Infrastructure Scheme – Research Infrastructure Block Grants. \$63K
2006	Atwell BJ, Hughes L, Leishman M, Lusk C, Roberts TH & Haynes P. <i>Full Climate Control Facilities for Plant Experimentation</i> . Macquarie University Strategic Infrastructure Scheme – Research Infrastructure Block Grants. \$56K
2006 – 2009	Stokes H, Mabbutt B, Gillings M, Baker M, Nevalainen H, Roberts TH , Willows RD, & Ranganathan S. <i>Macquarie University Centre for Microbial Functional Networks</i> . Macquarie University Centres. \$120K
01/01/2007 – 31/12/2007	Roberts TH , Baker M & Hiller R. Discovering Plant <i>Serpin Functions: Hot Leads from Cold Induction</i> . Macquarie University Safety Net. \$19.8K
01/01/2006 – 31/12/2006	Roberts TH & Baker M. <i>Plant Serpins in Metabolic Regulation</i> . Macquarie University Safety Net. \$19.5K
	Roberts TH . Discovering the Functions of Plant Serpins Using Gene Knockouts. Macquarie University MQRDG. \$20.6K
01/01/2005 – 31/12/2005	Roberts TH & Baker M. <i>Properties and Functions of Serpins in</i> Chlamydomonas reinhardtii. Macquarie University Safety Net. \$18.2K
2004	Roberts TH . Biochemical Properties, Proteomics and Crystal Structures of Serpins from the Model Flowering Plant Arabidopsis thaliana. Macquarie University ECR New Staff. \$19.0K

MAIN AREAS OF PROFESSIONAL ACHIEVEMENTS

Research

- Current interests: Effects of plant growth under heat stress and high atmospheric CO₂ on the grain quality of wheat, barley and chickpea; Protease-protease inhibitor interactions in the barley/barley leaf rust pathosystem; Food applications of sorghum grain; Effects of malting on phenolic compounds in sorghum grain; Effects of cultivar x location on phenolic compounds in sorghum grain; Morphology and biochemical properties of Australian native grains; Food and beverage applications of Australian cultivars of triticale; Plant serpin genes and protein function
- **Previous contributions:** Nitrogen metabolism in legumes; Biochemistry of the plant mitochondrial electron transport chain; Serpins in unicellular organisms; Enzymes in chlorophyll biosynthesis; Wheat grain proteomics; Properties of pomegranate seed oil; Gene silencing in *Arabidopsis*; Methods for protein/allergen extraction from peanuts; Growth and molecular responses of plants to oxygen deprivation; Development of techniques for the study of programmed cell death in barley germination; β-amylases in wheat; Mechanisms of salt tolerance and seed quality of Australian native rices; Diversity and evolution of pigments in rust fungi; Effects of the application of plant leaf extracts on the defence of cereals against abiotic and biotic stresses

- **Key Researcher** in the Australian Research Council Cooperative Research Centre for Innovative Grain Food Products (Grain Foods CRC; 2005–2009)
- Publication output: three book chapters; 79 peer-reviewed journal articles including primary papers in Journal of Biological Chemistry (2000, 2010), Journal of Experimental Botany (2003, 2012), PNAS (2002), Phytochemistry (2019), Plant Journal (2015) and Plant Physiology (1996, 2010), and reviews in Critical Reviews in Food Science and Nutrition (2021), Journal of Cereal Science (2016), Molecules (2013), Physiologia Plantarum (2012) and Functional & Integrative Genomics (2008); 76 conference abstracts.
- **Publication metrics** (17 Sept 2025): Scopus total citations = 3,689, h-index = 32; Google Scholar total citations = 5,883, h-index = 36
- ISI Web-of-Science Highly Cited Papers (top 1% of their academic field):
 - Naz R, Sarfraz A, Anwar Z, Nosheen A, Yasmin H, Nosheen A, Keyani R & Roberts TH (2021).
 Combined ability of salicylic acid and spermidine to mitigate the individual and interactive effects of drought and chromium stress in maize (*Zea mays* L.). *Plant Physiology and Biochemistry* 159, 285–300
 - Tayyab N, Naz R, Yasmin H, Nosheen A, Keyani R, Sajjad M, Hassan MN & Roberts TH (2020).
 Combined seed and foliar pre-treatments with exogenous methyl jasmonate and salicylic acid mitigate drought-induced stress in maize. *PLoS One* 15, e0232269 (18 pp)
 - Khoddami A, Wilkes MA and Roberts TH (2013). Techniques for analysis of plant phenolic compounds. *Molecules* 18, 2328–2375
- Five best primary papers in the last 10 years not based on citations or impact factor alone (reverse chronological order)
 - Masoomi-Aladizgeh F, Atwell BJ, Bokshi A, Thistlethwaite R, Khoddami A, Trethowan R, Tan DKY & Roberts
 TH (2025). Pinpointing the timing of meiosis: a critical factor in evaluating the impact of abiotic stresses on
 the fertility of cereal crops. New Phytologist 245, 1341–1354
 - Detailed explanation of the need to perform sampling of developing male gametophytes in cereals which is informed by developmental biology, not by morphological attributes alone.
 - 2. Dong C, Huang T-C & Roberts TH (2023). Genes encoding structurally conserved serpins in the wheat genome: identification and expression profiles during plant development and abiotic and biotic stress. *International Journal of Molecular Sciences* 24(3), 2707 (16 pp)
 - Identification that 81 of the 189 putative serpin genes in bread wheat, plus two additional genes, encode full-length, structurally conserved serpins, and analysis showing that these genes respond differentially to plant development and disease/abiotic stress.
 - **3.** Rahman S, Copeland L, Atwell BJ & **Roberts TH** (2021). Elevated CO₂ differentially affects the properties of grain from wild and domesticated rice. *Journal of Cereal Science* **100**, 103227 (8 pp)
 - Study of the differential effects of plant growth and development under elevated atmospheric CO_2 on the grain properties of two wild rice species endemic to northern Australia compared to domesticated rice.
 - **4.** Wang E, Dong CM, Park RF & **Roberts TH** (2019). Carotenoid complement of rust spores: variation among species and pathotype. *Phytochemistry* **161**, 139–148
 - Systematic study of the identity and relative abundance of the carotenoids in the rust spore cytoplasm using modern analytical methods, showing that four major carotenoids are present, and the ratio of γ -carotene: β -carotene varies substantially among rust species.
 - 5. Walczyk NE, Smith PM, Tovey E and Roberts TH (2017). Peanut protein extraction conditions strongly influence yield of allergens Ara h 1 and 2 and sensitivity of immunoassays. Food Chemistry 221, 335–44

 Systematic study of the effectiveness of common extraction conditions (20 buffers, defatting reagents, extraction time/temperatures, processing, extraction repeats) on crude protein and Ara h 1 and 2 yields.
- Research and postgraduate research training: Planning, delivering, managing and evaluating
- **Higher degree research (HDR) supervision record**: Lead Supervisor of 10 completed PhD graduates, one completed MPhil graduate, and one completed MAgEnv graduate (in reverse chronological order):
 - o **Rahman, Sayedur** (2022). Canopy architecture, carbon gain and grain properties of native Australian rices: Effects of elevated atmospheric carbon dioxide (PhD, Sydney)
 - Huang, Ting-Chun (2020). Identity and subfamily classification of serpins in bread wheat (Triticum aestivum) and their expression pattern in tissues, under plant stresses and during embryogenesis (MAgEnv, Sydney)
 - Shenouda, Samar (2020): Beta-amylase genes in common/bread wheat (Triticum aestivum) (PhD, Sydney)
 - o Yichie, Yoav (2019). Salinity tolerance of wild rice accessions from northern Australia (PhD, Sydney)

- Wang, Erpei (2018). Pigments in rust fungi: Biosynthesis, role in plant-pathogen interactions, and evolution (PhD, Sydney)
- o **Khoddami, Ali** (2016). *Phenolic compounds in grains of Australian-grown sorghums: Quantitative analyses including impacts of malting and effects on broiler nutrition* (PhD, Sydney)
- Siqueira Reis, Rodrigo (2015). Role of double-stranded RNA binding proteins in the Arabidopsis miRNA pathway (PhD, Sydney)
- Daneri-Castro, Sergio Nicolas (2015). Germination-related cell death in the aleurone layer of malting barley (PhD, Sydney)
- Walczyk, Nicole (2013). The impact of elevated carbon dioxide concentration and other environmental conditions on the allergenicity of peanuts (PhD, Macquarie)
- Ersoy, Renan (2011). Functional expression analyses of serpin genes in Arabidopsis and rice (PhD, Macquarie)
- o Francis, Sheila (2010). *Identification and expression of serpin genes in rice* (MPhil, Macquarie)
- Ahn, Joon-Woo (2009). Functional characterization of serpins in plants and green algae (PhD, Macquarie)

Auxiliary Supervisor for the following HDR completions:

- o Xu, Xiao-Yu (2019) (PhD, Sydney)
- o Edwards, Joshua (2013) (PhD, Macquarie)
- o Peterson, Robyn (2012) (PhD, Macquarie)
- o Neilson, Karlie (2012) (PhD, Macquarie)
- Mirzaei, Mehdi (2012) (PhD, Macquarie)
- o Farmer, Phyllis (2011) (PhD, Macquarie)
- o Camenzuli, Michelle (2008) (MPhil, Macquarie)
- Current supervision: I am the Lead Supervisor of four PhD students:
 - Susanga Mahamadakalapuwage: Mechanisms determining the effects of plant heat stress on the carbohydrate profiles of wheat, barley and chickpea grain
 - Jacob Humphries: Controlled brewing trials comparing triticale malt with wheat and rye malts
 - o **Farkhondeh Abedi**: Biochemical properties of Australian native grains
 - o Jennifer Le: Molecular interactions between barley and barley leaf rust
- Industry collaborations since 2012: Professional research relationships with 4 Pines, Advanta Seeds, Australian
 Agricultural Technologies (AAT), Boortmalt, FBFD Pty Ltd, GenTech Seeds, LangTech International, Nuseed,
 Peanut Company of Australia (PCA), Radicle Seeds, Smart MCs
- Research profiles:

Google Scholar: https://scholar.google.com/citations?user=3kleKUkAAAAJ&hl=en&oi=ao
ResearchGate: https://www.researchgate.net/profile/Thomas_Roberts?ev=hdr_xprf

Web-of-Science: https://www.webofscience.com/wos/author/record/H-2071-2012?state=%7B%7D

Orcid: http://orcid.org/0000-0003-3831-3240

Awards

• **SUPRA Supervisor of the Year 2022** awarded by the Sydney University Postgraduate Research Association 'for outstanding knowledge, commitment and care'.

Teaching

- Yearly casual teaching of 3rd-year Plant Cells and Molecules at the Management Development Institute of Singapore 2005–2009

University Service highlights

- Member of the SOLES Curriculum Subcommittee since May 2024
- Member of the SOLES Research Education Committee since January 2024

- Postgraduate Coordinator for the Agriculture & Food Theme in SOLES since January 2024
- Academic Board Nominee for the Horizon Fellowships Scheme Selection Committee for the Sydney Law School (July–August 2023)
- Theme Leader for Quality Food of the Sydney Institute of Agriculture since September 2021 including Academic Leader of the annual Sydney Institute of Agriculture postgraduate 3-day excursions
- Member of the SOLES Advanced Studies Committee (2021 to present) as the representative for Food Science
- Stream Coordinator for Bachelor of Science/Bachelor of Advanced Studies (Food and Agribusiness) since 2019
- Coordinator of the Food Science Major (2024 to present)
- Member of the Life, Earth and Environmental Sciences LEES Building Research Advisory Group since 2019
- Member of the SOLES website working party (July 2016 to June 2017) designing the research website network for all researchers in SOLES
- Participant in workshops for the Molecular, Genetics, Nutrition, Microbiology and Disease cluster and Plant Sciences cluster to define Majors (July 2016)
- Member of the University of Sydney Life, Earth & Environmental Science (LEES) Research Working Party (2014–2015) to provide the basis for a funding submission for construction of new buildings at USyd
- Postgraduate Coordinator for the Department of Plant and Food Sciences, University of Sydney (2012–2015)
- Member of the Postgraduate Management Committee and the Board of Graduate Studies, Faculty of Agriculture and Environment, University of Sydney (2012–15)
- **Seminar coordinator** for Department of Chemistry and Biomolecular Sciences, Macquarie University and Department of Plant and Food Sciences, University of Sydney (2012–15)
- Member of Level B Local Promotions Committee (2013)
- Member of Macquarie University Institutional Biosafety Committee (IBC; 2004–11)

Membership of societies

- Member and former Plant Science Education Representative (2016–2019) of the Australian Society of Plant Scientists (ASPS)
- Member of Australasian Grain Science Association (AGSA)
- Member of the Australian Society for Biochemistry and Molecular Biology (ASBMB)
- Member of the Institute of Food Technologists (IFT)
- Member of the Australian Institute of Food Science and Technology (AIFST)

Other professional activities

- **Associate Editor** of the CSIRO journal *Functional Plant Biology* since October 2018. All manuscripts processed were in the field of molecular plant biology.
- Journal article refereeing: Agri Gene; Agriculture; Agronomy; Applied Sciences; Biological Chemistry; BMC Chemistry; BMC Complementary and Alternative Medicine; BMC Evolutional Biology; BMC Genomics; BMC Plant Biology; Brazilian Journal of Botany; Cell Biology International; Cereal Chemistry; Chemistry Central Journal; Cogent Food and Agriculture; Computational and Structural Biotechnology Journal; Food Chemistry; Food Science and Nutrition; Frontiers in Plant Science; Functional Plant Biology; International Journal of Food Science and Technology; Journal of Agricultural and Food Chemistry; Journal of Cereal Science; Journal of Essential Oil Bearing Plants; Journal of Plant Physiology; Journal of Food Science and Technology; Journal of Plant Physiology; Journal of Proteomics; Journal of the American Oil Chemists Society; Journal of the Science of Food and Agriculture; Marine Drugs; MethodsX; Molecular Genetics and Genomics; Nature Protocols; New Phytologist; Peer Journal; Physiologia Plantarum; Phytochemistry; Plant Biology; Plant Physiology and Biochemistry; Plant Science; PLoS One; Proteomics Journal; Scientific Reports; Separation and Purification Technology, Starch-Stärke
- Copy editing: Acknowledged in 24 journal articles
- Thesis examination: Examiner of 12 PhD theses from University of Adelaide, Monash University, University of New South Wales, University of Sydney, University of Western Australia, United Arab Emirates University, Victoria University (Canada) and Western Sydney University. Examiner of 10 Masters theses.
- Research proposals reviewing for funding bodies: Reviewer for the Australian Research Council (ARC) for DECRA, Discovery-Projects and Future Fellowships schemes; Comisión Nacional de Investigación Científica y Tecnológica (CONICYT; National Commission for Scientific and Technological Research, Chile); Fondo Nacional de Desarrollo Científico y Tecnológico (FONDECYT; National Fund for Scientific and Technological Development); Fonds voor Wetenschappelijk Onderzoek (FWO, Research Foundation Flanders, Belgium); Israel Science Foundation; Minerva Stiftung (Minerva Research Initiative, Germany).

- Conference organization: Member of Scientific Advisory Committee for the 6th and 7th Symposia on the Structure, Function and Biology of Serpins (2011 and 2015, respectively); Member of the Organizing Committee for the 65th Australasian Grain Science Conference (2015); Member of the Local Organizing Committee for ComBio2026 as a representative of the Australian Society of Plant Scientists (ASPS); Co-chair of the Organizing Committee for the 76th Australasian Grain Science Conference (2026).
- Communication of recent research in the media: In the March/April 2023 issue of the Grains Research and Development Corporation (GRDC) magazine "Groundcover" (National edition), research I led on food applications of Australian sorghum was featured in an article by Claire Crawford entitled "Project aims to expand options for Australian sorghum": see https://groundcover.grdc.com.au/crops/cereals/project-aims-to-expand-options-for-australian-sorghum