

## Sunday 30 October 2022

16:00-17:30	Registration desk open
17:00-18:30	The Origins of Agriculture with Prof Bruce Pascoe and Assoc Prof Alison Crowther *This pre-conference event requires a ticket for entry and spaces are limited. Conference delegates can purchase tickets when completing their registration.

## Monday 31 October 2022

7:00-20:00	Registration desk open
08:00-10:00	Conference official opening Plenary speaker 1: Agricultural sustainability and trade – opportunities and challenges Ms Su McCluskey, Special Representative for Australian Agriculture, Department of Agriculture, Fisheries and Forestry, Australia Plenary speaker 2: Dr Haven Baker, Co-Founder and Chief Business Officer, Pairwise, USA
10:00-10:25	Morning Tea, sponsored by 

Theme	Agribusiness, value chains, and the bioeconomy	Predictive agriculture	Sustainable agrifood systems	Healthy agriculture and food for healthy communities	AgFutures	Harlan

### Concurrent symposium session 1

10:30-12:30	<b>1.1 The AgriFood and Internet of Farms Traction Program: Insights from the Netherlands and Denmark – to and beyond \$100 billion</b>  Chairpersons: Ben van Delden and Piers Hogarth-Scott, KPMG  Panel session covering the insights gathered by the Traction Tour delegates to the Netherlands and how this relates to what is happening in Australia, the Circularity and Data Exchanges amongst other things.  <b>Panelists:</b> Dr Michele Allan, Food and Agribusiness Growth Centre (FIAG), Trusted Autonomous Systems Defence CRC, AgriFoodConnect and Wine Australia; Charles Sturt University; Food Agility CRC, Smart Sat CRC and Dairy Food Safety Victoria, Australia  Mr Jason Strong, CEO, Meat and Livestock Australia  Prof Neena Mitter, The University of Queensland, Centre for Horticultural Science, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia  Ms Margo Andrae, CEO, Australian Pork Ltd, Australia	<b>1.2 Application of digital technologies in agriculture: Plant-Canopy-Field-Region</b>   gold sponsor  Chairpersons: Prof Pablo Zarco-Tejada, The University of Melbourne, School of Agriculture and Food, Faculty of Veterinary and Agricultural Sciences (FVAS) and Department of Infrastructure Engineering, Faculty of Engineering and Information Technology (FEIT) and Prof Andries Potgieter, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia  <b>Trait dissection to study abiotic stress tolerance in cereals – from controlled environment to the field</b> Dr Bettina Berger, The University of Adelaide, School of Agriculture, Food and Wine, Faculty of Sciences, Engineering and Technology, Australia  <b>The use of multi-spectral sensing technologies from a UAV to enhance mungbean productivity</b> Ms Shanice Van Haeften, The University of Queensland, School of Agriculture and Food Sciences (SAFS) and Ms Caitlin Dudley, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia  <b>Deriving radiation use efficiency from hyperspectral sensing for enhanced sorghum production in Australia</b> Dr Barbara George-Jaeggli, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia  <b>Spatiotemporal patterns of phenology for grain crops revealed with S2 satellite imagery</b> Dr Yan Zhao, The University of Queensland, Australia  <b>Assessing plant functioning with plant traits using hyperspectral imagery, radiative transfer models and machine learning approaches</b> Dr Carlos Camino, JRC – European Commission  <b>Fluorescence and plant pigments quantified from hyperspectral sensors for biotic and abiotic stress detection</b> Prof Pablo Zarco-Tejada, The University of Melbourne, School of Agriculture and Food, Faculty of Veterinary and Agricultural Sciences (FVAS), Australia	<b>1.3 Tropical beef systems: Reproductive efficiency and carbon neutrality</b>   MEAT & LIVESTOCK AUSTRALIA symposium sponsor  Chairperson: Mr David Phelps, Tropical North Queensland Drought Resilience Adoption and Innovation Hub, Australia  <b>Practical interventions to reduce calf wastage and herd mortality in northern systems</b> Prof Luis Prada e Silva, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia  <b>Understanding the nexus between productivity, profitability and sustainability of northern beef systems in a variable climate</b> Dr Diane Mayberry, Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia  <b>Solutions for a nature positive beef industry</b> Ms Naomi Wilson, Environment and Sustainability, AACo, Australia  <b>Can feed additives contribute to methane mitigation in Northern herds?</b> Dr Sarah Meale, The University of Queensland, School of Agriculture and Food Sciences (SAFS), Australia  <b>Nitrogen use efficiency and nitrogen loss in cattle systems</b> Dr Karen Eyre, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia  <b>Environmental stress and reproductive efficiency in northern Australia</b> Dr John Gaughan, The University of Queensland, School of Agriculture and Food Sciences (SAFS), Australia	<b>1.4 Emerging foods for health</b>  Chairpersons: Dr Michael Netzel and Ms Gethmini Kodagoda, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia  <b>Community-based food system for traditional African vegetables in Limpopo South Africa</b> Prof Dharini Sivakumar, Tshwane University of Technology, South Africa  <b>Promoting indigenous leadership and ownership of the native food value chain for sustainable outcomes</b> Ms Sophie Ader, ARC Industrial Transformation Training Centre for Uniquely Australian Foods, The University of Queensland, Australia  <b>Potential aquaculture species as emerging food</b> Dr Glenn Anderson, Department of Agriculture and Fisheries, Australia  <b>Goat meat a promising source of protein for diet diversity</b> Prof Louwrens Hoffman, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia  <b>Ensuring the future of taro - a food staple in Queensland</b> Dr Bradley Cambell, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia  <b>Establishing a value proposition for the Bunya Nut</b> Ms Jacqueline Moura Nadolny, The University of Queensland, School of Chemical Engineering, Australia	<b>1.5 Carbon and bio-sequestration in agricultural production systems</b>  Chairperson: Dr Tim Smith, Department of Agriculture and Fisheries, Australia  <b>Carbon as a catalyst to creating resilient food crops and profit</b> Mr Shane Quinn, Mulgowie Farming Company, Australia  <b>Carbon and animal production systems</b> Mr Sam Churchill, JBS, Australia  <b>Carbon in forestry systems</b> Mr Simon Dorries, Responsible Wood, Australia  <b>The centrality of organic carbon in balancing the multifunctional nature of soils</b> Prof Peter Kopitke, Soil Science and Plant Nutrition, The University of Queensland, School of Agriculture and Food Sciences (SAFS), Australia  <b>Carbon opportunity decision support</b> Ms Katie McRobert, Australian Farm Institute, Australia	<b>1.6 Investigating traditional food production systems in Mithaka country</b>  Chairpersons: Dr Michael Westaway, The University of Queensland and Mr Joshua Gorrige, Mithaka Aboriginal Corporation, Australia  <b>A multidisciplinary investigation of an Aboriginal 'centre' of food production</b> Dr Michael Westaway, The University of Queensland, Australia  <b>The mines of the Mithaka: Aboriginal sandstone mining in Channel Country</b> Mr Doug Williams, Griffith University, Australia  <b>Reconstructing ethnobotany on Mithaka country</b> Dr Jennifer Silcock, The University of Queensland; Queensland Herbarium, Australia  <b>Archaeobotanical evidence for wood and seed exploitation from an Aboriginal Ganyah Site</b> Prof Andrew Fairbairn, The University of Queensland and Dr Nathan Wright, University of New England, Australia  <b>Mithaka Aboriginal corporation The future of Mithaka farming</b> Mr Josh Gorrige and Ms Shawnee Gorrige, Mithaka Aboriginal Corporation, Australia  <b>Agricultural origins in Mithaka country?</b> Prof Bruce Pascoe, The University of Melbourne, Australia
12:30-13:25	Lunch and poster session, sponsored by 					

### Concurrent symposium session 2

13:30-15:30	<b>2.1 Creating value from food waste</b>  Chairperson: Ms Francesca Goodman-Smith, Fight Food Waste CRC, Australia  <b>Frontiers research into food waste in Australia</b> Mr Tom McCue, Hort Innovation, Australia  <b>The horticulture sector action plan bringing a supply chain together to reduce food loss and waste</b> Ms Melissa Smith, Stop Food Waste Australia, Australia  <b>Defining new markets and opportunities, the role of BSF in creating value from food waste</b> Ms Olympia Yarger, GoTerra, Australia  <b>Opportunities for full crop utilisation in Australia</b> Dr Pablo Juliano, Food Processing and Supply Chains, Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia  <b>Food waste valorisation technology assessment using real options</b> Dr Jason West, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia  <b>Understanding supply chains to improve food security in remote Queensland communities</b> Ms Renae Earle, Health and Wellbeing Qld and Mr Adrian Doyle, Arup, Australia	<b>2.2 Artificial Intelligence and machine learning applications in agriculture</b>  Chairperson: Prof Ben Hayes, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia  <b>The future of AI and machine learning</b> Prof Helen Huang, The University of Queensland, School of Information Technology and Electrical Engineering (ITEE), Australia  <b>Evolutionary computing for sustainable crop breeding programs</b> Ms Kira Villers, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia  <b>AI for accurate prediction of high value phenotypes</b> Dr Maciej Trzaskowski, Max Kelsen, Australia  <b>Artificial Intelligence and Towards hands-free robotic crop management in protected cropping systems</b> Dr Chris Lehnert, Queensland University of Technology, Australia  <b>AI and Machine Learning for genomic prediction in sugarcane, a highly polyploid crop</b> Mr Chensong Chen, The University of Queensland, Australia  <b>Quantifying heat sensitivity across temperature gradients accelerates selecting heat-adapted genetic resources</b> Dr Ya-Ping Lin, World Vegetable Center, Taiwan	<b>2.3 Improved soil fertility for healthier environments and reduced agricultural production risks</b>  Chairperson: Dr Nicole Robinson, The University of Queensland, School of Agriculture and Food Sciences (SAFS), Australia  <b>Matching crop to environment - advancing nitrogen efficiency in sugarcane</b> Dr Nicole Robinson, The University of Queensland, School of Agriculture and Food Sciences (SAFS), Australia  <b>Deep banding of P improves pod yield in Chickpea genotypes</b> Dr Vijaya Singh, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI)  <b>Simulating long-term nutrient dynamics to better assess soil fertility in subtropical cropping</b> Ms Bianca Das, University of Tasmania, Australia  <b>Maintaining soil organic matter to slow fertility decline and the reliance on fertilisers</b> Dr David Lawrence, Department of Agriculture and Fisheries, Australia  <b>Enabling the circular nutrient economy Prof Susanne Schmidt, The University of Queensland, School of Agriculture and Food Sciences (SAFS), Australia</b>  <b>Feasibility of biochar application for vegetable production in paddy field areas of Timor-Leste</b> Mr Acacio Guterres, Charles Darwin University, Australia	<b>2.4 Partnerships for Food System Transformation – diverse knowledge systems, capacity and approaches driving equitable, healthy, sustainable futures</b>  Chairpersons: Ms Larelle McMillan, Commonwealth Scientific and Industrial Research Organisation (CSIRO) and Dr Saleha Akter, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia  <b>Defining and designing food systems</b> Prof Damian Hine, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia  <b>Whole of system improvement</b> Dr Ammar Abdul Aziz, The University of Queensland, School of Agriculture and Food Sciences (SAFS), Australia  <b>Regional distinctions in nutritional needs and practices</b> Dr Sinead Boylan, Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia  <b>Diet and nutrition across the food system</b> Dr Olivia Wright, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia  <b>Transformation: Constraints and barriers to change</b> Dr Andy Hall, Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia  <b>Co-designing a market garden to deliver better health on Mornington Island, Australia</b> Ms Renae Earle, Health and Wellbeing Queensland and Dr Sunny Oliver-Bennetts, Arup, Australia	<b>2.5 Growing horticultural exports</b>  Chairperson: Dr Penny Measham, Department of Agriculture and Fisheries, Australia  <b>A history of phytosanitary market access research enabling export of Australian mangoes</b> Mr Peter Leach, Department of Agriculture and Fisheries, Australia  <b>Ensuring product quality through export supply chains: A case study in citrus</b> Dr Andrew Macnish, Department of Agriculture and Fisheries, Australia  <b>Current market intelligence: Opportunities and barriers for Asian markets</b> Ms Sarah Goswami, Department of Agriculture and Fisheries, Australia  <b>Growing horticultural exports Speaker four</b>  <b>Growing horticultural exports Speaker five</b>  <b>Growing horticultural exports Speaker six</b>	<b>2.6 Tropical crop domestication</b>  Chairperson: Dr Sally Norton, Australian Grains Genebank Agriculture Victoria, Australia  <b>Progress in understanding sugarcane genome architecture and origin</b> Dr Angelique D'Hont, CIRAD French Agricultural Research Centre for International Development, France  <b>Recent insights into the domestication of rice</b> Prof Robert Henry, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia  <b>Fatal attraction: Why are so many crop plants toxic?</b> Prof Ros Gleadow, Monash University, Australia  <b>Diversity and distribution of Taro</b> Dr Millicent Smith, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia  <b>The domestication of macadamia</b> Dr Craig Hardner, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia  <b>CnSHELL gene provides insights on phylogeny and origin of coconut cultivars</b> Mr Charles Cadoma, University of the Philippines, Philippines
15:30-15:55	Afternoon Tea					

# TropAg Symposia Speaker Program

Brisbane Convention & Exhibition Centre, Brisbane, Australia

Concurrent symposium session 3						
16:00–18:00	<b>3.1 Market-led innovation – driving agricultural entrepreneurship in Africa and Australia</b>  symposium sponsor	<b>3.2 ARC Centre of Excellence for Plant Success in Nature and Agriculture: Enabling a step change for predictive agriculture</b>	<b>3.3 Effective regional biosecurity for a changing world</b>	<b>3.4 Pacific food environments – transformations for better nutrition and sustainable food systems</b>	<b>3.5 Managing agricultural runoff – beyond practise change</b>	<b>3.6 Genomic signatures of animal domestication and implications for modern agriculture</b>
	Chairperson: Dr Vivienne Anthony, Syngenta Foundation for Sustainable Agriculture, Switzerland	Chairperson: Prof Christine Beveridge, ARC Centre of Excellence for Plant Success in Nature and Agriculture, The University of Queensland, Australia	Chairperson: Dr Anna Okello, Australian Centre for International Agricultural Research (ACIAR), Australia	Chairperson: Mrs Jessica Raneri, Australian Centre for International Agricultural Research (ACIAR); Department of Foreign Affairs and Trade, Australia	Chairperson: Mr Timothy Moravek, Department of Agriculture and Fisheries, Australia	Chairpersons: Prof Ben Hayes and Prof Andrew Fairbairn, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia
	Innovation systems in legumes in Africa Mr Jean-Claude Rubyogo, Pan Africa Bean Research Alliance (PABRA), Kenya	Extending the breeder's equation to explore prediction opportunities Prof Mark Cooper, The University of Queensland, Queensland Alliance for Agriculture and Food, Innovation (QAAFI), Australia	Managing plant biosecurity in Pacific Island Countries Prof John Thomas, The University of Queensland, Queensland Alliance for Agriculture and Food, Innovation (QAAFI), Australia	Informal markets in the Solomon Islands – food price, availability and opportunities for improving nutrition Ms Jillia Tutuo Wate, World Fish, Solomon Islands	Moving beyond practice change for WQ improvements – the why Mr Ian Layden, Department of Agriculture and Fisheries, Australia	The origins and spread of domestic animals in Southwest Asia and Europe Prof Keith Dobney, The University of Sydney, Australia
	Syngenta – committed to advancing innovation for a more sustainable agriculture Mr Eric Brown, Syngenta ANZ, Australia	From model organisms to crops: Transferring prediction models Dr Owen Powell, The University of Queensland, Queensland Alliance for Agriculture and Food, Innovation (QAAFI), Australia	What honey bees can teach us about working as a team towards effective honey bee biosecurity in the Indo-Pacific region Dr Cooper Schouten, Southern Cross University, Australia	Strengthening collaboration between the agricultural and health sectors in Fiji to improve nutritional outcomes for farming families Dr Cathy O'Mullan, CQ University, Australia	Stomping out sediment Mr Paul Jones, Department of Agriculture and Fisheries, Australia	How long have dogs been in Melanesia? New evidence from Caution Bay, south coast of Papua New Guinea Assoc Prof Tiina Manne, The University of Queensland, Australia
	African women in agribusiness – users and creators of new varieties and innovation Dr Eileen Nchanji, International Center for Tropical Agriculture (CIAT), Kenya	Plant success within natural systems Assoc Prof Daniel Ortiz-Barrientos, The University of Queensland, Australia	Forest biosecurity: How can we mitigate risk? Dr Madaline Healey, The University of Sunshine Coast, Australia	Piloting school gardens in Papua New Guinea Ms Trudie Sikas-Iha, Morobe School Gardens, Papua New Guinea	Tracking practice change spatially and temporally – the Paddock2Reef Program Mr Kevin McCosker, Department of Agriculture and Fisheries, Australia	The mosaic genome of African cattle: A unique adaptive genetic resource Prof Olivier Hannote, International Livestock Research Institute (ILRI), Ethiopia
	Market-Led approaches to cocoa, palm oil and cassava variety breeding at the National Research Centre in Côte d'Ivoire Prof Sangare Abdourahmane, National Centre for Agricultural Research (CNRA), Republic of Cote d'Ivoire	Accelerating plant success: From phylogenomics to agriculture Prof Barbara Holland, University of Tasmania, Australia	Understanding the burden of animal disease in Indonesia: Implications for regional biosecurity Dr Diane Mayberry, Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia	Tuvalu food futures: From Foodcubes to better diets Ms Teuleal Manuella, Live and Learn Environment Education, Tuvalu	Using wetland processes to enhance nitrogen removal in farming landscapes Ms Carla Wegscheid, Department of Agriculture and Fisheries, Australia	300,000 years of evolution of gene regulation: What does comparing the Bos indicus and Bos taurus genomes reveal? Dr Mehrnush Forutan, The University of Queensland, Australia
	ACIAR's approach to supporting agricultural innovation systems in emerging economies Dr Eric Huttner, Australian Centre for International Agricultural Research (ACIAR), Australia	Centre of Excellence partnerships and pathways to impact for circular biosystems Prof Charlie Messina, The University of Florida, USA	Understanding the value of regional biosecurity Prof Tom Kompas, The University of Melbourne, Australia	Pacific Island Food Revolution: Innovating a Local Solution to combat a health epidemic Ms Votausi Reur-McKenzie, Pacific Island Food Revolution, Vanuatu	Applying Social Science insights to enhance practice change outcomes Ms Meg Bickle, Department of Environment and Science; Office of the Great Barrier Reef, Australia	Functional palaeogenomics reveals how farming drove the evolution of virulence in a-chicken-virus Prof Dr Laurent Frantz, Ludwig Maximilian University of Munich, Germany
	Advances in demand-led breeding of dry grain and vegetable runner beans Prof Paul Kimani, University of Nairobi, Kenya	CropGen: A novel tool for optimising sorghum crop design Miss Genevieve Durrington, The University of Queensland, Australia	Understanding roles and experiences of women managing FAW in maize in SEA Miss Leandra Fernandes, ASEAN FAW Action Plan, Singapore	Participatory approaches to improve food environments and consumption of fish Ms Agustinha Duarte, World Fish, Timor-Leste	Can insurance help farmers mitigate nitrogen impacts on the Great Barrier Reef? Dr Peter Thorburn, Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia	Genomic architecture for complex traits in hybrid populations Mrs Christie Warburton, The University of Queensland, Australia
18:00–20:00	Welcome reception and poster viewing					



## Tuesday 1 November 2022

07:30–17:00	Registration desk open					
08:00–09:30	<b>Plenary speaker 3: Farming in the 21st Century: Protected Cropping as a solution to mitigate the impact of climate change and supply chain disruption</b> Prof Paul Gauthier, Professor of Protected Cropping, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia - USA  <b>Plenary speaker 4: Future of First Nations Food Systems and Emerging Trends</b> Hon Prof Henrietta Marrie AM - Australian Research Council - Training Centre for Uniquely Australian Foods, The University of Queensland, Australia					
09:30–09:55	<b>Morning Tea</b> , sponsored by 					
Theme	Agribusiness, value chains, and the bioeconomy	Predictive agriculture	Sustainable agrifood systems	Healthy agriculture and food for healthy communities	AgFutures	Harlan
<b>Concurrent symposium session 4</b>						
10:00–12:00	<b>4.1 Protected cropping in the tropics: How it stacks up for sustainability and supply chains?</b>  <b>Hort Innovation</b> silver sponsor  Chairperson: Prof Paul Gauthier, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia  <b>Opportunities for protected cropping development in Australia—outcomes from the national RD&amp;E Strategy</b> Dr Elio Jovicich, Department of Agriculture and Fisheries, Australia  <b>Topic to be confirmed</b> Prof Gail Taylor, UC Davis, USA	<b>4.2 New and emerging methods and technologies to improve phenotypic predictions in livestock agriculture</b>  Chairperson: Dr Elizabeth Ross, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia  <b>Recent advances in genomic prediction in dairy using multi-omics resources</b> Dr Amanda Chamberlain, Agriculture Victoria Research, Australia  <b>Microbiome predictions for methane in sheep</b> Dr Melanie Hess, University of Nebraska, USA	<b>4.3 On-farm biodiversity to increase climate resilience and sustainability</b>  Chairperson: Dr Nora Devoe, Australian Centre for International Agricultural Research (ACIAR), Australia  <b>Diversity in agricultural landscapes for pollinator diets</b> Prof Helen Wallace, Griffith University, Australia  <b>On-farm diversity increases productivity and carbon sequestration opportunities in smallholder farming systems</b> Dr Joel Buyinza, World Agroforestry Centre (ICRAF), Kenya	<b>4.4 One health from a livestock view</b>  Chairpersons: Dr Conny Turni and Muhamad Noman Naseen, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia  <b>Livestock-derived foods and one health</b> Dr Jimmy Smith, International Livestock Research Institute (ILRI), Kenya  <b>Global challenges and solutions for implementation of antimicrobial stewardship in veterinary medicine – turning back the tide of antimicrobial resistance</b> Prof Glenn Browning, The University of Melbourne, Faculty of Veterinary and Agricultural Sciences, Australia	<b>4.5 Provenance: Challenges and opportunities in adding value to food</b>  the university for the real world silver sponsor  Chairperson: Dr Daniel Cozzolino, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia  <b>Provenance and traceability of seafood</b> Dr Donna Cawthorn, Department of Agriculture and Fisheries, Australia  <b>Provenance of food proteins</b> Prof Louw Hoffman, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	<b>4.6 The archaeobotany of domestication of vegetatively-propagated field and tree crops</b>  Chairperson: Prof Tim Denham, Australian National University, Australia  <b>Tracing tropical plant domestication using microfossils</b> Dr Alison Crowther, The University of Queensland, School of Social Science, Australia  <b>Establishing a virtual, on-line database of archaeological parenchyma for Indo-Pacific root crops</b> Ms Aleese Barron, Australian National University, School of Archaeology and Anthropology, Australia
	<b>New opportunities in protected cropping</b> Ms Emily Rigby, Protected Cropping Australia, Australia  <b>Beyond Geography: How the best vertical farms can operate anywhere and grow quality crops for local diets</b> Mr David Farquhar, Intelligent Growth Solutions, Australia  <b>National Vegetable Protected Cropping Centre (NVFCC) – glasshouse films to reduce energy use and increase resource use efficiency</b> Prof David Tissue, Western Sydney University, Australia  <b>Topic to be confirmed</b> Mr Marcus van Heijst, Priva, Australia	<b>Recent innovations in the use of Nanopore sequence data in predictive livestock agriculture</b> Dr Loan Nguyen, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia  <b>Lessons from human quantitative genomics that can improve livestock production</b> Dr Kathryn Kemper, IMB, Australia	<b>Data and digital solutions for managing carbon and other forms of natural capital on farm</b> Dr Madeline Mitchell, Food Agility CRC, Australia  <b>Agroforestry reduces erosion and increases income over maize monoculture in Northwest Vietnam</b> Dr Nguyen La, Soils and Fertilizer Research Institute, Vietnam	<b>Collaboration – Queensland’s One Health Response to Japanese Encephalitis</b> Dr Jo Mollinger, Biosecurity Queensland, Department of Agriculture and Fisheries, Australia  <b>Systems dynamics modelling</b> Assoc Prof Simon Reid, The University of Queensland, School of Public Health, Australia	<b>Honey authenticity and provenance</b> Dr Natasha Hungerford, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia  <b>Cybersecurity and provenance</b> Prof Ryan Ko, The University of Queensland, School of Information Technology and Electrical Engineering (ITEE), Australia	<b>The identification of tropical arboriculture in Oceania using wood charcoal</b> Ms Alex Ribeny, Australian National University, School of Archaeology and Anthropology, Australia  <b>Tracking the domestication and dispersal of banana cultivars (Musa cvs): New insights on phytoliths</b> Dr Luc Vrydaghs, Maritime Cultures Research Institute (MARI) – VUB, Department of Art Studies and Archaeology, Belgium  <b>Historical dynamics of enset diversity in the Ethiopian Highlands: Integrating archaeobotany, ethnobotany and genomics</b> Dr Philippa Ryan, Royal Botanic Gardens Kew, UK
12:00–12:55	<b>Lunch and poster session</b> , sponsored by 					
<b>Concurrent symposium session 5</b>						
13:00–15:00	<b>5.1 Manufacturing plants – key to sustainable supply chain</b>  Chairpersons: Dr Jayeni Hiti Bandaralage, Prof Neena Mitter and Dr Alice Hayward, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia  <b>Banana gene editing technology</b> Dr Leena Tripathi, International Institute of Tropical Agriculture, Tanzania  <b>Potentials in commercialisation in coconut cloning</b> Prof Steve Adkins, The University of Queensland, School of Agriculture and Food Sciences (SAFS), Australia  <b>In vitro culture of threatened species for research and restoration</b> Dr Cathy Offord, The Royal Botanic Garden, Australia  <b>The frozen orchard- securing avocado genetic diversity via cryopreservation</b> Dr Chris O'Brien, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia  <b>Let's toast – avocado tissue culture goes commercial</b> Dr Jayeni Hiti Bandaralage, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia  <b>Regeneration of naked cells: A reliable protoplast regeneration platform for Duboisia species</b> Mr Yuxin Xue, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	<b>5.2 Breeding tools for predicting fruit quality</b>  Chairperson: Assoc Prof Heather Smyth, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia  <b>Prediction of citrus quality traits in the development of superior commercial varieties</b> Prof Juan Xu, Huazhong Agricultural University, China  <b>Improving tomato flavor quality by integrating genetics and consumer-driven approaches</b> Dr Denise Tieman, University of Florida, Institute of Food and Agricultural Sciences, USA  <b>The importance of fruit sensory quality – an industry perspective</b> Mr Andrew Redman, Perfection Fresh Australia Pty Ltd, Australia  <b>Profiling the flavour of Australian papaya (Carica papaya L.) varieties</b> Dr Shane (ZiWei) Zhou, Griffith University, Australia  <b>Tropical fruit - using key aroma components as predictors of sensory quality</b> Mr Jenson George, Department of Agriculture and Fisheries, Australia  <b>Fruit quality: Do we know what consumers want?</b> Assoc Prof Heather Smyth, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	Independent Science for Development Council symposium sponsor  Chairperson: Dr Holger Meinke, University of Tasmania; CGIAR Independent Science for Development Council, Australia  <b>View from the field: Co-innovation with small-scale farmers</b> Dr Bruno Condoni Ali, US Department of Agriculture (USDA); Agricultural Research Service (ARS), Bolivia  <b>Co-creating sustainability: Innovation in Sustainable Agrifood Systems</b> Dr Alyssa Jade McDonald-Baertl, CGIAR, Germany  <b>Inclusive partnerships for One CGIAR</b> Dr Nompumelelo Obokoh, CGIAR Independent Science for Development Council, South Africa  <b>Building inclusive innovation in international development Building inclusive innovation in international development Building inclusive innovation in international development</b> Speaker four	symposium sponsor  Chairperson: Prof Gabrielle Persley, The University of Queensland, School of Agriculture and Food Sciences (SAFS), Australia  <b>Surveillance of emerging infectious diseases in animals and wildlife in low and middle income countries of Africa, Asia, and the Americas – the role of USAID</b> Dr Robert Bertram, United States Agency for International Development (USAID), USA  <b>African Swine fever (ASF) - Unintended consequences: The influence of ASF epidemics in pigs in 2018-19, on COVID19 outbreaks in 2020, by limiting pork supply in low income communities and thus increasing dependence on bushmeat</b> Dr Edward Okoth, International Livestock Research Institute (ILRI), Kenya  <b>New diagnostics for early detection to reduce risk of emerging infectious diseases in livestock, wildlife and disease vectors</b> Dr Phil Toye, International Livestock Research Institute (ILRI), Kenya  <b>The role of vectors as sentinels: Mosquitos and birds as sentinels to detect and mitigate West Nile Virus spread: Implications for emerging vector borne disease surveillance</b> Prof Susan Vandewoude, One Health Institute Colorado State University, USA  <b>The politics of pandemics – science meets policy – Policies in preparing for, and preventing future pandemics</b> Prof Martin Jeggo, Geelong Centre for Emerging Infectious Disease, Deakin University, Australia  <b>AMR in Pacific Island countries: Current status, challenges and strategic solutions</b> Dr Royford Magiri, Fiji National University, Fiji	<b>5.5 Improving food safety and traceability in the horticulture sector</b>  Chairperson: Mr Jim Dodds, Safe Food Production Queensland, Australia  <b>Investigations on foodborne illness outbreaks linked to fresh produce</b> Dr Craig Shadbolt, NSW Food Authority, Australia  <b>Primary production and processing standards for horticulture</b> Mr Brian Witherspoon, Safe Food Production Queensland, Australia  <b>Enabling food safety compliance of the fresh produce industry</b> Dr Sukhvinder Pal (SP) Singh, Horticulture Food Safety and Traceability, NSW Department of Primary Industries, Australia  <b>Traceability-problems, solutions, and adoption journey in the fresh food sector</b> Mr Ram Akella, National GS1 Traceability Advisory Group, Woolworths Group, Australia  <b>Leading the industry through changing food safety regulatory landscape</b> Mr Terry O'Leary, Melons Australia; Paramagh Farming, Australia  <b>Postharvest sanitisers and fungicides interactions and their implications on food safety</b> Ms Joanna Rothwell, The University of Sydney, Australia	<b>5.6 Tree translocation, cultivation and domestication in Australia and the Asia-Pacific</b>  Chairperson: Prof Andrew Fairbairn, The University of Queensland, School of Social Science, Australia  <b>Tree translocation in Aboriginal Australia</b> Dr Jennifer Silcock, The University of Queensland, Australia  <b>Demographic consequences of native food tree dispersal by First Nations peoples</b> Ms Monica Fahey, Royal Botanic Gardens and Domain Trust, Australia  <b>Domesticating treescapes – as seen through archaeobotanical analyses of macroremains, case-studies from Australia and the Pacific</b> Ms Chae Byrne, University of Western Australia, Australia  <b>The exploitation of sago (Metroxylon sagu) in the Asia-Pacific</b> Prof Huw Barton, The University of Leicester, UK  <b>A 20,000 year history of Canarium (galip/pili nut) exploitation from Papua New Guinea: Was it foraging or cultivation?</b> Prof Andrew Fairbairn, The University of Queensland, School of Social Science, Australia
15:00–15:25	Afternoon Tea					
15:30–17:30	ACIAR and CGIAR plenary session: Food security and food systems transformation in the Indo-Pacific—the role for science					
19:00–23:00	TropAg conference dinner					



## Wednesday 2 November 2022

07:30–15:30	Registration desk open					
Theme	Agribusiness, value chains, and the bioeconomy	Predictive agriculture	Sustainable agrifood systems	Healthy agriculture and food for healthy communities	AgFutures	Harlan
			Australian Government Australian Centre for International Agricultural Research		Queensland Government	HARLANIV THE FOURTH JACKIE HARLAN INTERNATIONAL SYMPOSIUM
<b>Concurrent symposium session 6</b>						
08:00–10:00	<b>6.1 Genetic characterisation of tropical crops to take advantage of market niches</b>  MGI symposium sponsor  Chairperson: Dr Natalie Dillon, Department of Agriculture and Fisheries, Australia	<b>6.2 Beaming out paddock secrets: The application of remote technology for a new era of beef cattle research</b>  Chairperson: Dr Matt Kelly, Australian Agricultural Company, Australia	<b>6.3 Sustainable pork, chicken meat, and egg production. How far is the "net-zero" emission?</b>  Chairpersons: Prof Eugeni Roura, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI) and Mr Glenn Anderson, Department of Agriculture and Fisheries, Australia	<b>6.4 Dietary patterns, habits, and health outcomes</b>  Chairpersons: Dr Olivia Wright and Maral Seidi Danyeh, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	<b>6.5 Growing our AgTech future</b>	<b>6.6 Plant genetic resources - initiatives to harness biodiversity and increase utility</b>  illumina silver sponsor  Chairperson: Prof Robert Henry, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia
	<b>Genetics of cacao</b> Prof Pathmanathan Umaharan, Cocoa Research Centre, The University of the West Indies, Trinidad	<b>Digitally aided rangeland management</b> Prof Derek Bailey, New Mexico State University, Animal and Range Sciences Department, USA	<b>The sustainability of the Australian Agri-food System</b> Mr Michael Beer, AgriFutures, Australia	<b>Dietary habits and health and the Decadal plan on nutrition</b> Prof Helen Truby, The University of Queensland, School of Human Movement and Nutrition Sciences, Australia	<b>Growing our AgTech future Speaker one</b>	<b>DivSeek International Network and the Australasian Hub—extending the community of practice for open dissemination of information about plant genetic resources</b> Prof Graham King and Prof Andy Lowe, DivSeek International Network and the Australasian regional Hub
	<b>Improving the marketing competitiveness of fine or flavour cocoa origin</b> Dr Darin Sukha, Cocoa Research Centre, The University of the West Indies, Trinidad	<b>The intertwine of technologies for sustainable landscapes</b> Dr Phil Tickle, Cibolabs, Australia	<b>The sustainability of Australian pork production</b> Ms Margo Andrae, Australian Pork Ltd, Australia	<b>Environmental impacts of dietary patterns — methods and global perspectives</b> Assoc Prof Jolieke van der Pols, Queensland University of Technology, School of Exercise & Nutrition Sciences, Faculty of Health, Australia	<b>Growing our AgTech future Speaker two</b>	<b>The role of CePaCT in the conservation and use of plant genetic resources to support food security, nutrition and resilient food systems in the Pacific</b> Ms Logotonu Meleisea Waqainabete, Centre for Pacific Crops and Trees (CePaCT), Fiji
	<b>Topic to be confirmed</b> Assoc Prof Surya Bhattarai, Institute for Future Farming Systems, CQ University, Australia	<b>Lambing event detection as an example of autonomous sensing</b> Dr Sabine Schmoelzl, Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia	<b>The sustainability of Australian chicken meat production</b> Dr Kylie Hewson, Australian Chicken Meat Federation, Australia	<b>Dietary patterns, food security and food choice in the Pacific Islands</b> Dr Sarah Burkhart, School of Health & Behavioural Sciences, Australian Centre for Pacific Islands Research, USC	<b>Growing our AgTech future Speaker three</b>	<b>Coordination of information platforms to support use of Plant Genetic Resources</b> Dr Sarah Dyer, European Bioinformatics Institute (EMBL-EBI), UK
	<b>Tomorrow's vanilla: Genomics, plant breeding, and conservation of the world's favorite flavor</b> Dr Muhammad Sohail Mazhar, Department of Industry, Tourism and Trade, NT Government, Australia	<b>Evaluating and enhancing technologies to detect parturition events in cattle</b> Dr Christie Pearson, Northern Territory Department of Industry Tourism and Trade, Australia	<b>What does "zero" in "net zero" really mean?</b> Dr Tony Peacock, Australasian Pork Research Institute, Australia	<b>Seeking sweetness – a systematic scoping review of factors influencing sugar-sweetened beverage consumption worldwide</b> Ms Jessica Cartwright, ARC Industrial Transformation Training Centre for Uniquely Australian Foods, The University of Queensland, School of Human Movement and Nutrition Sciences, Australia	<b>Growing our AgTech future Speaker four</b>	<b>Genebank perspectives on improving efficiencies through using omic technologies</b> Dr Sally Norton, Australian Grains Genebank, Australia
	<b>Shaping the Future of Agriculture with Genomics</b> Dr Xin Liu, BGI, China	<b>Beaming out reproductively associated behaviours in cattle</b> Dr Anita Chang, CQUniversity, Australia	<b>Pathways to net zero for Australian pork and poultry production</b> Dr Mary-Frances Copley, Integrity Ag & Environment, Australia	<b>Alternative options for salt in dietary patterns: Underutilised plant species+</b> Ms Sukirtha Srivatharan, ARC Industrial Transformation Training Centre for Uniquely Australian Foods, The University of Queensland, Australia	<b>Growing our AgTech future Speaker five</b>	<b>Collection genomics – rapid assessment of wild diversity and advances with target capture</b> Dr Katharina Nargar, Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia
	<b>Breeding papaya to suit every household: Genetic gains and stability of trait inheritance</b> Prof Rebecca Ford, Griffith University, Australia	<b>Technobeeffaction: Development and application of tools for a new era of northern beef production</b> Dr Kieren McCosker, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia		<b>Strawberry – an overlooked source of natural folate?</b> Dr Michael Netzel, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), ARC Industrial Transformation Training Centre for Uniquely Australian Foods, Australia	<b>DigiHort: Digital twins for innovation of future orchard systems</b> Dr Liqi Han, The University of Queensland, Australia	<b>Indian National genebank- A goldmine for future trait specific genetic resources</b> Dr Veena Gupta, Indian Council of Agricultural Research, National Bureau of Plant Genetic Resources, India
10:00–10:25	<b>Morning Tea, sponsored by</b> Sustainable Crop Protection ARC HUB					
<b>Concurrent symposium session 7</b>						
10:30–12:30	<b>7.1 Fungi as foods, medicines, and biomaterials</b>  Chairperson: Dr Alistair McTaggart, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	<b>7.2 Designing photosynthesis for improving crop yield in contrasting environments</b>  Chairperson: Dr Alex Wu, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	<b>7.3 Resilient crops and agricultural systems</b>  University of Southern Queensland symposium sponsor  Chairperson: Dr Kaara Klepper, GRDC, Australia	<b>7.4 Biological approaches to manage agricultural pests and diseases</b>  Chairpersons: Ass Prof Femi Akintanmi and Dr Ivy Chen, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	<b>7.5 Nanotechnology for a new era of eco-sustainable agriculture</b>	<b>7.6 The future of crop diversity: Innovating governance and management of genetic resources and seed systems</b>
	<b>Trajectory of the gourmet mushroom industry</b> Mr Mickey Pascoe, Little Acre Gourmet Mushrooms, Australia	<b>Mining natural variation for greater rice canopy photosynthetic efficiency</b> Prof Xinguang Zhu, Institute of Plant Physiology and Ecology; Chinese Academy of Sciences, China	<b>Why climate resilient dryland cropping systems?</b> Ms Verity Morgan-Schmidt, Gheerulla Creek Consulting, Australia	<b>Precision pest management: A key to support healthy agriculture and food systems</b> Dr Nancy Schellhorn, RapidAim, Australia	<b>Internalisation of clay nanoparticles by plant cells</b> Prof Qin Li, Griffith University, Australia	<b>Navigating seed systems: Pathways to climate-resilient development</b> Dr Teshome Hunduma Mulesa, Norwegian University of Life Sciences, Norway
	<b>Value-adding mushrooms for ethical eating</b> Mr Michael Fox, Fable Food, Australia	<b>Physiological trait networks enhance understanding of crop growth and water use in contrasting environments</b> Dr Sean Gleason, USDA Agricultural Research Service, Fort Collins, USA	<b>What is likely to be the productivity frontier for dryland cropping by 2050?</b> Dr Stephen Crimp, Australian National University, Australia	<b>Beneficial insects to deliver non-toxic solutions for pest management</b> Mr Dan Papacek, Bugs for Bugs, Australia	<b>Plant nanobionics for enhanced photosynthesis</b> Dr Yichao Wang, School of Life and Environmental Sciences, Deakin University, Australia	<b>Crop Diversity Management System Commons: Revisiting the role of genebanks in the network of crop diversity actors</b> Dr Selim Louafi, French Agricultural Research Centre for International Development (CIRAD), France
	<b>Production of psilocybin mushrooms in Australia</b> Mr Shaun Duffy, RESET Mind Science, Australia	<b>Designing wheat crops for changing environments</b> Assoc Prof Karine Chenu, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	<b>Northern Australia Climate Program: Improving research and adoption of climate forecasting in northern Australian grazing systems</b> Dr Chelsea Jarvis, University of Southern Queensland, Australia	<b>Bioreporters and microbial omics approaches for discovery and deployment of biocontrols for fungal disease control in crops</b> Dr Louise Thatcher, Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia	<b>Silica nanoparticles for biopesticides</b> Dr Jun Zhang, The University of Queensland, Australian Institute for Bioengineering and Nanotechnology (AIBN), Australia	<b>Rethinking the control and freedom of seed banks</b> Dr Kamalesh Adhikari, School of Law, The University of Queensland, Australia
	<b>Metabolic characterisation of gourmet mushrooms</b> Dr Kylie Agnew-Francis, The University of Queensland, Australia	<b>Assessing effects of photosynthetic enhancement on crop growth and yield</b> Dr Alex Wu, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	<b>Trait physiology driven breeding for climate adaptation in cereals</b> Dr Fernanda Drecker, Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia	<b>Bio-control of parasites and disease vectors associated with domestic livestock species</b> Dr Peter James, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	<b>Applications and implications of nanotechnology in agriculture</b> Assoc Prof Melanie Kah, The University of Auckland, New Zealand	<b>Bioiversity's experiences in strengthening farmers' seed systems</b> Dr Gloria Otieno, Alliance Bioiversity-CIAT, Uganda
	<b>Mushrooms: A sustainable choice for agriculture in a changing climate</b> Ms Georgia Beattie, Bulla Farm, Australia	<b>Manipulating sorghum leaf angle for improved growth</b> Dr Karen Massel, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	<b>Towards assessing the benefits of using genomic tools to inform herd management decisions in drought</b> Dr Sabine Schmoelzl, Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia	<b>Biological control of invasive weeds in natural ecosystem</b> Prof Vic Galea, BioHerbicides Australia Pty Ltd, The University of Queensland, School of Agriculture and Food Sciences (SAFS), Australia	<b>Interactions between nanoformulations with plant leaves</b> Miss Shang Xu Jiang, The University of Queensland, Australian Institute for Bioengineering and Nanotechnology (AIBN), Australia	<b>National efforts to strengthen seed systems: Experiences from Bhutan</b> Dr Asia Tamang, National Biodiversity Centre, Bhutan
	<b>Increasing the production yield of mushrooms with pulsed electric field technology</b> Mr Farzan Zare, The University of Queensland, Australia	<b>Understanding physiological changes associated to yield gain in US commercial sorghum</b> Ms Paula A Demarco, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia; Kansas State University, USA	<b>Gender-specific perceptions on climate risks and farm level adaptation in coastal Bangladesh</b> Dr Esmat Ara Begum, Bangladesh Agricultural Research Institute, Bangladesh	<b>Antimicrobial photodynamic inactivation with curcumin against fungi in strawberry</b> Dr Maral Seidisamyeh, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	<b>Development of plant-derived nanovesicles for anti-fungal strategies</b> Dr Angela Chen, University of California Riverside, USA	<b>Developing seed law in Southeast Asia's Greater Mekong Subregion</b> Mr Erik Delaquis, International Center for Tropical Agriculture (CIAT), Lao People's Democratic Republic
12:30–13:10	<b>Lunch and poster session, sponsored by</b> APPF Australian Plant Phenomics Facility					

# TropAg Symposia Speaker Program

Brisbane Convention & Exhibition Centre, Brisbane, Australia

Concurrent symposium session 8						
13:15–15:15	8.1 The new protein paradigm – new models to meet global demand	8.2 Innovation in tropical pulse breeding	8.3 Designing and modelling crops for a hotter and drier world	8.4 RNA for plant health  symposium sponsor	8.5 Enhanced efficiency fertilisers in (sub) tropical agriculture – opportunities to improve sustainability	8.6 Value of ancient ingredients in modern foods
		Chairpersons: Prof Michael Udvardi, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI) and Prof Rajeev Varshney, Murdoch University, Australia	Chairpersons: Dr Inigo Auzmendi and Prof Andrew Borrell, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	Chairpersons: Dr Donald Gardiner, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI) and Mr Mike Poinon, NuFarm, Australia	Chairperson: Mr Jeff Kraak, Fertilizer Australia, Australia	Chairpersons: Prof Henrietta Marrie and Dr Anh Phan, ARC Training Centre for Uniquely Australian Foods, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia
	The new protein paradigm – new models to meet global demand Speaker one	Pan genomics for tropical legume crop improvement Prof Rajeev Varshney, Centre for Crop and Food Innovation, Murdoch University, Australia	Designing plant architecture for future climates Prof Andrew Borrell, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	RNAi for insect pests Prof Guy Smagghhe, University of Ghent, Belgium	Performance of different N fertiliser technologies used in subtropical maize production Prof Michael Bell, The University of Queensland, Australia	Aboriginal legacy for the Brisbane area and historical artifacts connected to food Ms Madonna Thomson, Nyanda Cultural Tours, Australia
	The new protein paradigm – new models to meet global demand Speaker two	Genomic and phenomic approaches to mungbean breeding Prof Ramakrishnan Madhavan Nair, World Vegetable Center, USA	Aquaporins: Hydraulic engineering for a drier world Assoc Prof Caitlin Byrt, Australian National University, Australia	Topical RNAi for fungal control Dr Angela Chen, University of California Riverside, USA	Assessment of enhanced efficiency fertilisers in sugarcane grown in North Queensland Mr Julian Connellan, Sugar Research Australia, Australia	Cultural and modern connections to native foods Ms Michelle On, Kiril Park Wild Harvest Enterprise, Australia
	The new protein paradigm – new models to meet global demand Speaker three	Physiological approaches to pulse breeding Dr Millicent Smith, The University of Queensland, Australia	Optimising root-microorganism dynamics to combat drought Dr Vicky Waymouth, The University of Melbourne, Australia	RNA applications targeting diseases of tree crops and citrus Prof Anne Simon, University of Maryland, Department of Cell Biology and Molecular Genetics, USA	Comparing nitrogen runoff losses in sugarcane fertilised with EEF or urea Mr Tony Webster, Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia	65 000 years of collecting cooking and eating anme (plant foods) at Madjedbebe rockshelter, Mirarr Country, northern Australia Dr Anna Florin, St John's College; McDonald Institute for Archaeological Research; University of Cambridge, UK
	The new protein paradigm – new models to meet global demand Speaker four	Proteomics for designer pulse protein Ms Arineh Tahmasian, Cowan University, Australia	Designing sorghum crops for adaptation to future climates Prof Graeme Hammer, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	Protecting Australian crops from lepidopteran insect pests using RNAi Dr Julia Bally, Queensland University of Technology, Australia	Benefits of EEFs to sugarcane and the environment: Nitrification inhibition vs. controlled-release Dr Weijin Wang, Department of Environment and Science, Australia	Future flavours from the past: Sensory analysis of Australian native fruits from Arnhem Land Dr Selina Fyfe, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia
	The new protein paradigm – new models to meet global demand Speaker five	Application of AI in tropical pulse breeding Prof Ben Hayes, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	Scalable and integrated modelling tools to assess G*E*M interactions at continental scales. The case of Maize in Sub-Saharan Africa Dr Jonathan Ojeda, Regrow Ag, Australia	RNA for plant health Speaker five	Nitrogen use efficiency and reducing greenhouse gas emissions in subtropical agricultural systems Prof Peter Grace, Queensland University of Technology, Australia	Value added food products from wattle seed Mr Oladipupo Adiamo, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia
	The new protein paradigm – new models to meet global demand Speaker six	Novel breeding approach for faster cooking biofortified common beans in East Africa Dr Clare Tekla Mukankusi, Alliance of Bioversity International and International Centre for Tropical Agriculture (CIAT), Uganda	Economic analysis of <i>Arachis-pinto</i> under climate change conditions in Colombia Miss Karen Enciso, Alliance Bioversity & CIAT, Colombia		When to expect benefits from enhanced-efficiency fertilisers and why? – Insights from modelling Dr Kirsten Verburg, Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia	Functional ingredients from <i>Terminalia</i> sp. Kakadu plum as a case study Prof Yasmina Sultanbawa, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia
15:15–15:25	Comfort break					
15:30–17:00	Plenary speaker 5: Banana genome diversity is shaped by admixture and large structural variations Dr Angelique D'Hont, Team Manager and Researcher, CIRAD French Agricultural Research Centre for International Development, France					
	Plenary speaker 6: Science-fiction or science-fact? Research for sustainable livestock agri-food systems Dr Jimmy Smith, Director General, International Livestock Research Institute (ILRI), Kenya					
17:00–17:30	Closing ceremony, award presentations and final function					

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