

TropAg Preliminary Symposia Program

Brisbane Convention and Exhibition Centre, Brisbane, Australia



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 <i>*This pre-conference event requires a ticket for entry and spaces are limited. Conference delegates can purchase tickets when completing their registration.</i>					
Monday 31 October 2022						
7:00–20:00	Registration desk open					
08:00–10:00	Conference official opening					
	Plenary speaker 1: Ms Su McCluskey, Special Representative for Australian Agriculture, Department of Agriculture, Water and the Environment, Australia					
	Plenary speaker 2: Dr Haven Baker, Co-Founder and Chief Business Officer, Pairwise, USA					
10:00–10:25	Morning Tea					
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	1.1 Creating value from food waste	1.2 Application of digital technologies in agriculture: Plant-Canopy-Field-Region	1.3 Tropical beef systems: Reproductive efficiency and carbon neutrality	1.4 Emerging foods for health	1.5 Carbon and biosequestration in agricultural production systems	1.6 Investigating traditional food production systems in Mithaka country
	Organiser: Ms Francesca Goodman-Smith, Fight Food Waste CRC	Organiser: Prof Andries Potgieter, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI)	Organiser: Prof Luis Prada e Silva, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI)	Organiser: Prof Yasmina Sultanbawa, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI)	Organiser: Dr Tim Smith, Department of Agriculture and Fisheries	Organisers: Dr Michael Westaway, The University of Queensland & Mr Joshua Gorrige, Mithaka Aboriginal Corporation
12:30–13:25	Lunch and poster session					
Concurrent symposium session 2						
13:30–15:30	2.1 The Agrifood and Internet of Farms Traction Program	2.2 Artificial Intelligence and machine learning applications in agriculture	2.3 Improved soil fertility for healthier environments and reduced agricultural production risks	2.4 Partnerships for Food System Transformation – diverse knowledge systems, capacity and approaches driving equitable, healthy, sustainable futures	2.5 Growing horticultural exports	2.6 Tropical crop domestication
	Organiser: Mr Piers Hogarth-Scott, KPMG	Organiser: Prof Ben Hayes, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI)	Organiser: Dr Barbara George-Jaeggli, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI)	Organisers: Dr Sinead Boylan, Commonwealth Scientific and Industrial Research Organisation (CSIRO) & Dr Olivia Wright, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI)	Organiser: Dr Penny Measham, Department of Agriculture and Fisheries	Organiser: Prof Robert Henry, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI)
15:30–15:55	Afternoon Tea					
Concurrent symposium session 3						
16:00–18:00	3.1 Market-led innovation – driving agricultural entrepreneurship in Africa and Australia	3.2 ARC Centre of Excellence for Plant Success in Nature and Agriculture: Enabling a step change for predictive agriculture	3.3 Effective regional biosecurity for a changing world	3.4 Pacific food environments – transformations for better nutrition and sustainable food system	3.5 Managing agricultural runoff – beyond practise change	3.6 Genomic signatures of animal domestication and implications for modern agriculture
	Organiser: Dr Vivienne Anthony, Syngenta Foundation for Sustainable Agriculture	Organiser: Prof Mark Cooper, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI)	Organiser: Dr Todd Sanderson, Australian Centre for International Agricultural Research (ACIAR)	Organiser: Ms Jessica Raneri, Australian Centre for International Agricultural Research (ACIAR)	Organiser: Mr Timothy Moravek, Department of Agriculture and Fisheries	Organiser: Prof Ben Hayes, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI)
18:00–20:00	Welcome reception and poster viewing					

Please note: Chair, speakers and symposia sponsors to be announced in the final program.

*Program is subject to change. Correct as at 1 July 2022

TropAg Preliminary Symposia Program continued...

Tuesday 1 November 2022						
07:30–17:00	Registration desk open					
08:00–09:30	Plenary speaker 3: Prof Paul Gauthier, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia - USA					
	Plenary speaker 4: Prof Henrietta Marrie, Honorary Professor, Australian Research Council (ARC) Training Centre for Uniquely Australian Foods, Australia					
09:30–09:55	Morning Tea					
Concurrent symposium session 4						
10:00–12:00	4.1 Protected cropping in the tropics: How it stacks up for sustainability and supply chains?	4.2 New and emerging methods and technologies to improve phenotypic predictions in livestock agriculture	4.3 On-farm biodiversity to increase climate resilience and sustainability	4.4 One health from a livestock view	4.5 Provenance: Challenges and opportunities in adding value to food	4.6 The archaeobotany of domestication of vegetatively-propagated field and tree crops
	Organiser: Prof Neena Mitter, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI)	Organiser: Dr Elizabeth Ross, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI)	Organiser: Dr Barbara George-Jaeggli, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI)	Organiser: Dr Lida Omaleki, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI)	Organiser: Dr Daniel Cozzolino, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI)	Organiser: Prof Tim Denham, Australian National University
12:00–12:55	Lunch and poster session					
Concurrent symposium session 5						
13:00–15:00	5.1 Manufacturing plants – key to sustainable supply chain	5.2 Breeding tools for predicting fruit quality	5.3 Building inclusive innovation in international development	5.4 Disease sentinels: Farm animals and wildlife as sentinels to better predict and prevent human disease pandemics	5.5 Improving food safety and traceability in the horticulture sector	5.6 Tree translocation, cultivation and domestication in Australia and the Asia-Pacific
	Organiser: Dr Jayeni Hiti Banderalage, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI)	Organiser: Mr Jenson George, Department of Agriculture and Fisheries	Organiser: Dr Amy Beaudreault, CGIAR Independent Science for Development Council (ISDC)	Organiser: Prof Gabrielle Persley, The University of Queensland, School of Agriculture and Food Sciences	Organiser: Dr Sukhvinder Pal Singh, NSW Department of Primary Industries	Organiser: Prof Andrew Fairbairn, The University of Queensland, School of Social Science
15:00–15:25	Afternoon Tea					
15:30–17:30	ACIAR Plenary Session					
19:00–23:00	TropAg conference dinner					

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TropAg Preliminary Symposia Program continued...

Wednesday 2 November 2022						
07:30–15:30	Registration desk open					
Concurrent symposium session 6						
08:00–10:00	6.1 Genetic characterisation of tropical crops to take advantage of market niches	6.2 Beaming out paddock secrets: The application of remote technology for a new era of beef cattle research	6.3 Sustainable pork, chicken meat, and egg production. How far is the “net-zero” emission?	6.4 Dietary patterns, habits, and health outcomes	6.5 Growing our AgTech future	6.6 Plant genetic resources - initiatives to harness biodiversity and increase utility
	Organiser: Dr Natalie Dillon, Department of Agriculture and Fisheries	Organiser: Dr Kieren McCosker, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI)	Organiser: Prof Eugeni Roura, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI)	Organiser: Dr Olivia Wright and Dr Michael Netzel, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI)	Organiser: Ms Lynne Turner, Department of Agriculture and Fisheries	Organiser: Prof Graham King, DivSeek & Dr Sally Norton, Australian Grains Genebank
10:00–10:25	Morning Tea					
Concurrent symposium session 7						
10:30–12:30	7.1 Fungi as foods, medicines, and biomaterials	7.2 Predicting crop designs for yield improvement and adaptation to changing environments	7.3 Resilient crops and agricultural systems	7.4 Biological approaches to manage agricultural pests and diseases	7.5 Enhanced efficiency fertilisers in (sub) tropical agriculture – opportunities to improve sustainability	7.6 The future of crop diversity: Innovating governance and management of genetic resources and seed systems
	Organiser: Dr Alistair McTaggart, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI)	Organiser: Dr Alex Wu, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI)	Organiser: Prof Daniel Rodriguez, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI) & Dr Graham Bonnett, Commonwealth Scientific and Industrial Research Organisation (CSIRO)	Organiser: Assoc Prof Femi Akinsanmi, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI)	Organiser: Dr Kristen Verburg, Commonwealth Scientific and Industrial Research Organisation (CSIRO)	Organiser: Assoc Prof Ola Westengen, Norwegian University of Life Sciences
12:30–13:10	Lunch and poster session					
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	8.5 Nanotechnology for a new era of eco-sustainable agriculture	8.6 Value of ancient ingredients in modern foods
	Organiser: Mr Duncan Ferguson, Sugar Research Australia	Organiser: Prof Michael Udvardi, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI)	Organisers: Dr Inigo Auzmendi & Prof Andrew Borrell, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI)	Organisers: Dr Donald Gardiner, Dr Narelle Manzie, Prof Neena Mitter, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI)	Organiser: Dr Peng Li, The University of Queensland, Australian Institute for Bioengineering and Nanotechnology	Organiser: Prof Yasmina Sultanbawa, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI)
15:15–15:25	Comfort break					
15:30–17:00	Plenary speaker 5: Dr Angelique D'Hont, CIRAD French Agricultural Research Centre for International Development, France					
	Plenary speaker 6: Mr Jimmy Smith, Director General, International Livestock Research Institute (ILRI), Kenya					
17:00–17:30	Closing ceremony, award presentations and final function					

For more information about TropAg, please visit tropagconference.org

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