

# 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, Fisheries and Forestry, 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	<b>1.1 Creating value from food waste</b> Organiser: Ms Francesca Goodman-Smith, Fight Food Waste CRC	<b>1.2 Application of digital technologies in agriculture: Plant-Canopy-Field-Region</b> Organiser: Prof Andries Potgieter, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI)	<b>1.3 Tropical beef systems: Reproductive efficiency and carbon neutrality</b> Organiser: Prof Luis Prada e Silva, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI)	<b>1.4 Emerging foods for health</b> Organiser: Prof Yasmina Sultanbawa, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI)	<b>1.5 Carbon and biosequestration in agricultural production systems</b> Organiser: Dr Tim Smith, Department of Agriculture and Fisheries	<b>1.6 Investigating traditional food production systems in Mithaka country</b> 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	<b>2.1 The Agrifood and Internet of Farms Traction Program</b> Organiser: Mr Piers Hogarth-Scott, KPMG	<b>2.2 Artificial Intelligence and machine learning applications in agriculture</b> Organiser: Prof Ben Hayes, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI)	<b>2.3 Improved soil fertility for healthier environments and reduced agricultural production risks</b> Organiser: Dr Barbara George-Jaeggli, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI)	<b>2.4 Partnerships for Food System Transformation – diverse knowledge systems, capacity and approaches driving equitable, healthy, sustainable futures</b> 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)	<b>2.5 Growing horticultural exports</b> Organiser: Dr Penny Measham, Department of Agriculture and Fisheries	<b>2.6 Tropical crop domestication</b> 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	<b>3.1 Market-led innovation – driving agricultural entrepreneurship in Africa and Australia</b> Organiser: Dr Vivienne Anthony, Syngenta Foundation for Sustainable Agriculture	<b>3.2 ARC Centre of Excellence for Plant Success in Nature and Agriculture: Enabling a step change for predictive agriculture</b> Organiser: Prof Mark Cooper, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI)	<b>3.3 Effective regional biosecurity for a changing world</b> Organiser: Dr Todd Sanderson, Australian Centre for International Agricultural Research (ACIAR)	<b>3.4 Pacific food environments – transformations for better nutrition and sustainable food system</b> Organiser: Ms Jessica Raneri, Australian Centre for International Agricultural Research (ACIAR)	<b>3.5 Managing agricultural runoff – beyond practise change</b> Organiser: Mr Timothy Moravek, Department of Agriculture and Fisheries	<b>3.6 Genomic signatures of animal domestication and implications for modern agriculture</b> 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 22 July 2022

# TropAg Preliminary Symposia Program

Tuesday 1 November 2022						
07:30–17:00	Registration desk open					
08:00–09:30	Plenary speaker 3: Prof Paul Gauthier, Professor of Protected Cropping, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia - USA					
	Plenary speaker 4: Hon Prof Henrietta Marrie AM - Australian Research Council - Training Centre for Uniquely Australian Foods, The University of Queensland, Australia					
09:30–09:55	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 4						
10:00–12:00	<b>4.1 Protected cropping in the tropics: How it stacks up for sustainability and supply chains?</b>	<b>4.2 New and emerging methods and technologies to improve phenotypic predictions in livestock agriculture</b>	<b>4.3 On-farm biodiversity to increase climate resilience and sustainability</b>	<b>4.4 One health from a livestock view</b>	<b>4.5 Provenance: Challenges and opportunities in adding value to food</b>	<b>4.6 The archaeobotany of domestication of vegetatively-propagated field and tree crops</b>
	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	<b>5.1 Manufacturing plants – key to sustainable supply chain</b>	<b>5.2 Breeding tools for predicting fruit quality</b>	<b>5.3 Building inclusive innovation in international development</b>	<b>5.4 Disease sentinels: Farm animals and wildlife as sentinels to better predict and prevent human disease pandemics</b>	<b>5.5 Improving food safety and traceability in the horticulture sector</b>	<b>5.6 Tree translocation, cultivation and domestication in Australia and the Asia-Pacific</b>
	Organiser: Dr Jayeni Hiti Bandaralage, 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 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					

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# TropAg Preliminary Symposia Program

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
Concurrent symposium session 6						
08:00–10:00	<b>6.1 Genetic characterisation of tropical crops to take advantage of market niches</b> Organiser: Dr Natalie Dillon, Department of Agriculture and Fisheries	<b>6.2 Beaming out paddock secrets: The application of remote technology for a new era of beef cattle research</b> Organiser: Dr Kieren McCosker, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI)	<b>6.3 Sustainable pork, chicken meat, and egg production. How far is the “net-zero” emission?</b> Organiser: Prof Eugeni Roura, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI)	<b>6.4 Dietary patterns, habits, and health outcomes</b> Organiser: Dr Olivia Wright and Dr Michael Netzel, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI)	<b>6.5 Growing our AgTech future</b> Organiser: Ms Lynne Turner, Department of Agriculture and Fisheries	<b>6.6 Plant genetic resources - initiatives to harness biodiversity and increase utility</b> 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	<b>7.1 Fungi as foods, medicines, and biomaterials</b> Organiser: Dr Alistair McTaggart, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI)	<b>7.2 Predicting crop designs for yield improvement and adaptation to changing environments</b> Organiser: Dr Alex Wu, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI)	<b>7.3 Resilient crops and agricultural systems</b> 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)	<b>7.4 Biological approaches to manage agricultural pests and diseases</b> Organiser: Assoc Prof Femi Akinsanmi, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI)	<b>7.5 Nanotechnology for a new era of eco-sustainable agriculture</b> Organiser: Dr Peng Li, The University of Queensland, Australian Institute for Bioengineering and Nanotechnology	<b>7.6 The future of crop diversity: Innovating governance and management of genetic resources and seed systems</b> 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	<b>8.1 The new protein paradigm – new models to meet global demand</b> Organiser: Mr Duncan Ferguson, Sugar Research Australia	<b>8.2 Innovation in tropical pulse breeding</b> Organiser: Prof Michael Udvardi, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI)	<b>8.3 Designing and modelling crops for a hotter and drier world</b> Organisers: Dr Inigo Auzmendi & Prof Andrew Borrell, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI)	<b>8.4 RNA for plant health</b> Organisers: Dr Donald Gardiner, Dr Narelle Manzie, Prof Neena Mitter, The University of Queensland, Queensland Alliance for Agriculture and Food Innovation (QAAFI)	<b>8.5 Enhanced efficiency fertilisers in (sub) tropical agriculture – opportunities to improve sustainability</b> Organiser: Dr Kirsten Verburg, Commonwealth Scientific and Industrial Research Organisation (CSIRO)	<b>8.6 Value of ancient ingredients in modern foods</b> 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, Team Manager and Researcher, 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](http://tropagconference.org)

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