

Poster displays

Below is a list of the TropAg2017 poster presentations. Each poster has a unique poster board number.

Odd numbered posters will be presented on Tuesday (eg 1.01; 2.13; 3.21; 4.35; 5.45; 6.03).

Even numbered posters will be presented on Wednesday (eg 1.02; 2.14; 3.22; 4.36; 5.42; 6.02).

Please refer to the number after the decimal point of the posterboard when determining the presentation day.

Future Field Crops

1.01	Using microbes (<i>Rhizobium</i> bacteria and Mycorrhizal fungi) in fighting pest and diseases in quinoa production in sub sahara Africa Azeez Adeniji, International Institute of Tropical Agriculture, Nigeria
1.02	Three-pronged approach of improved varieties, storage and agronomy increases household grain availability in Timor Leste Luis de Almeida, Ai-com, East Timor
1.03	Seedling emergence force varies between wheat genotypes possibly assisting emergence from crusted soils Monia Anzooman, The University of Queensland, Australia
1.04	Determining the risk of late maturity alpha-amylase (LMA) through simulations of triggering conditions across the main wheat producing shires of Australia Robert Armstrong, The University of Queensland, Australia
1.05	Developing a genetic map for Australian Wild Rice (AWR) using GBS Hayba Badro, The University of Queensland, Australia
1.06	Yield losses caused by different densities of parthenium weed (<i>Parthenium hysterophorus</i>) in direct-seeded rice Ali Bajwa, The University of Queensland, Australia
1.07	Buchanan: A new wheat variety adapted to tropical Queensland Phillip Banks, The University of Queensland, Australia
1.08	Investigating biotic factors affecting sugarcane yellow canopy syndrome in Australia Shiromani Basnayake, The University of Queensland, Australia
1.09	Can in-season NDVI be used to predict crude protein and yield of forage sorghum for silage? Marcelo Benvenuti, Department of Agriculture and Fisheries, Queensland Government, Australia
1.10	Increasing harvesting height improves the nutritive value of forage sorghum for silage Marcelo Benvenuti, Department of Agriculture and Fisheries, Queensland Government, Australia
1.11	Increasing genetic diversity through mutagenesis: Sorghum mutants with altered cyanogenic potential as a resource for crop improvement and food security Cecilia Blomstedt, Monash University, Australia
1.12	Row spacing is more important than seeding rate for increasing weed management in soybean Bhagirath Chauhan, The University of Queensland, Australia
1.13	Improving chickpea yield in climatically variable environments Yash Chauhan, Department of Agriculture and Fisheries, Queensland Government, Australia
1.14	How to improve drought adaptation in wheat? Karine Chenu, The University of Queensland, Australia
1.15	Effect of NatraMin soil conditioner on physical, chemical and biological soil properties in a glasshouse trial Jie Sheng Choong, The University of Queensland, Australia
1.16	Selecting wheat adapted to water-limited environments using novel technologies Jack Christopher, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia
1.17	Diversity in yield potential and yield stability among Australian commercial sorghum hybrids Simon Clarke, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia
1.18	Crop wild relatives as a resource for generating low-cyanide, drought-tolerant sorghum Max Cowan, Monash University, Australia
1.19	A rapid recurrent genomic selection project to reduce cooking time in <i>Phaseolus</i> beans Wallace Cowling, The University of Western Australia, Australia
1.20	Does strategic tillage combat no-till farming systems constraints? Yash Dang, The University of Queensland, Australia
1.21	Pathogen variability and identification of new sources of resistance to angular leaf spot among common bean landraces Gabriel Ddamulira, National Crops Resources Research Institute, Uganda
1.22	Increasing profitability of Australian cotton cropping systems through improved nitrogen use efficiency and reduced nitrogen losses Max De Antoni, Queensland University of Technology, Australia
1.23	Predicting the expected environment (E) to inform sorghum crop design (GxM) Peter De Voil, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia
1.24	Rice crop yield and yield attributes responses to variability of rate and timing application of nitrogen among contrasting rice cultivars Sabina Devkota, International Rice Research Institute, Philippines
1.25	Mungbean: Be a part of the next green revolution Col Douglas, Department of Agriculture and Fisheries, Queensland Government, Australia
1.26	Improving water productivity through simple soil moisture monitoring tools in Malawi Isaac Fandika, Department of Agricultural Research Services, Malawi
1.27	Host-induced gene silencing improves resistance against <i>Fusarium oxysporum</i> Shulang Fei, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia
1.28	Shorter trials to increase screening throughput for transpiration efficiency in wheat Andrew Fletcher, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia
1.29	Subtle effects of nanocarbon allotropes on soil microbial diversity Christian Forstner, The University of Queensland, Australia
1.30	A comparison of two post-harvest germination screening methods, using doubled haploid populations and commercial varieties of barley (<i>Hordeum vulgare</i>) to screen for pre-harvest sprouting resistance and post harvest dormancy Glen Fox, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia

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Future Field Crops

1.31	Functional SNP discovery associated with blanchability and oleic acid in cultivated peanut Agnelo Furtado, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	
1.32	Maize as a future field crop in Eastern India: Hybrid production and quality improvement Aditi Ghosh, University of Calcutta, India	
1.33	Elevated CO₂, drought, salinity and nutrient supply affect growth, resource partitioning and nutritional quality of cassava and taro Ros Gleadow, Monash University, Australia	
1.34	Investigation of GxE in genomic prediction for yield in sorghum using trials from multiple years Colleen Hunt, Department of Agriculture and Fisheries, Queensland Government, Australia	
1.35	Subsoil variation of pH Genevieve Johnson, Faith Christian School of Distance Education, Australia	
1.36	Development of a low cost, high throughput root phenotyping platform for quantifying genetic control of nodal root angle in sorghum Dinesh Joshi, ICAR-Vivekananda Parvatiya Krishi Anusandhan Sansthan, India	
1.38	Breeding runner bean for short-day adaptation, grain yield and disease resistance in Eastern Africa Paul Kimani, The University of Nairobi, Kenya	
1.39	An empirical model for wheat yield estimation using integrated NDVI landsat imagery Yunru Lai, The University of Queensland, Australia	
1.40	Modelling canopy greenness over time to investigate genetic variation in senescence dynamics using a one-stage statistical approach Bethany Macdonald, Department of Agriculture and Fisheries, Queensland Government, Australia	
1.41	Gas exchange and chlorophyll fluorescence changes in sugar beet (<i>Beta vulgaris</i> L.) under high relative humidity and heat stress Mohammad Malmir, Tarbiat Modares University, Iran	
1.42	Association of gene expression with biomass composition throughout the sugarcane plant Patrick Mason, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	
1.43	Mungbean grain yield, total water use and water use efficiency is increased when planted in narrow rows Kerry McKenzie, Department of Agriculture and Fisheries, Queensland Government, Australia	
1.44	Does a closer crop spatial arrangement inhibit tillering in maize? James McLean, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	
1.45	Phylogenetic analysis of the Asian and Australian AA genome wild rice Ali Mohammad Moner, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	
1.46	Inducible hyper-expression as a tool for metabolic engineering Cara Mortimer, Queensland University of Technology, Australia	
1.47	Diversity of iron and zinc grain content and agronomic performance of selected bean germplasm in East Africa	WITHDRAWN
1.48	Breeding development of hybrid maize in Timor Leste Claudino Nabais, Ministry of Agriculture and Fisheries, Timor-Leste	
1.49	Topically applied dsRNA for the suppression of tomato spotted wilt virus Alexander Nilon, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	
1.50	On-farm evaluation of the new drought-tolerant rice variety in rainfed lowlands: A case study of dry direct seeding in The Philippines Hoshie Ohno, Hokkaido University, Japan	
1.51	Validation of sugarcane biomass differential gene expression by real-time quantitative polymerase chain reaction (RT-qPCR) Angela O'Keeffe, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	
1.52	Diversity and transcriptional complexity of sucrose synthase genes in sugarcane Prathima Perumal Thirugnanasambandam, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	
1.53	Exploiting genetic potential of Australian-wild pigeonpea species Vanambathina Prameela Rani, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	
1.54	Targeting sustainable rice crop management in stress prone environments using integrated approach combining simulation model and GIS mapping Ando Radanielson, International Rice Research Institute, Philippines	
1.55	Analysis of root system traits in sugarcane Anne Rae, Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia	
1.56	Genetic gain for pre-harvest sprouting tolerance amongst commercial, white-grained wheat Allan Rattey, Dow Seeds, Australia	
1.57	Opportunities for rainfed tropical rice in Australia Charissa Rixon, Central Queensland University, Australia	
1.58	Sugarcane yellow canopy syndrome: 13C labelling, carbon partitioning, turnover and sink strength Gerard Scalia, Sugar Research Australia, Australia	
1.59	The chameleon sensor: A new tool for irrigation scheduling and managing pest in garlic crop Arif Shah, Balochistan Agriculture College, Quetta	
1.60	Developing a tissue culture protocol for Bele (<i>Abelmoschus manihot</i>)	WITHDRAWN
1.61	Building climate resilience in agricultural crops through improving CO₂ fixation under future climates Robert Sharwood, Australian National University, Australia	

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Future Field Crops

1.62	Optimization of transformation protocols to generate transgenic sorghum Muhammad Sohail, Monash University, Australia
1.63	Biochemical effects of banding suppress the localized benefits of enhanced efficiency fertilizers Chelsea Stroppiana, The University of Queensland, Australia
1.64	Structure and dynamics of the pan-genome of sorghum and wild relatives Yongfu Tao, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia
1.65	Dissecting the genetic basis of seed size in <i>Sorghum bicolor</i> Yongfu Tao, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia
1.66	Temperature response of phenology differs among diverse Ethiopian sorghum genotypes Alemu Tirfessa, The University of Queensland, Australia
1.67	Constitutive genotypic differences in transpiration rates are a major cause for variation in transpiration efficiency in sorghum Erik van Oosterom, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia
1.68	Using crop growth models to enhance selection efficiency in breeding for drought adaptation Xuemin Wang, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia
1.69	Abiotic stress is important in the development of sugarcane yellow canopy syndrome Kate Wathen-Dunn, Sugar Research Australia, Australia
1.70	Taking cover: An assessment of the performance of narrowband and wideband spectral sensors for estimating sorghum cover James Watson, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia
1.71	Variable rate application of nitrogen to sugarcane is profitable and could reduce nitrogen losses Anthony Webster, Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia
1.72	How to lift agricultural productivity in Timor-Leste? Robert Williams, Ai-com, East Timor
1.73	Sixteen years research on carbon cycling in subtropical paddy ecosystem in ISA Jinshui Wu, Chinese Academy of Sciences, China
1.74	Molecular structural differences between maize leaf and endosperm starches Shiyao Yu, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia
1.75	The big impacts of image resolution on the estimation of ground coverage for wheat in UAV survey Bangyou Zheng, Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia
1.76	PhenoCopter: A cloud based platform to manage, process and visualize images captured by unmanned aerial vehicle for high throughput phenotyping Bangyou Zheng, Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia
1.77	Soil application impacts of coal-derived humic acid on yield, nutrients accumulation and quality characteristics of sunflower under two irrigation regimes Syed Abdul Sadiq, Agriculture College Quetta, Government of Balochistan, Pakistan
1.79	Adaptation by smallholder farmers to climate change impacts on cassava whiteflies and associated viruses in Tanzania WITHDRAWN Oluwatosin Aregbesola, University of Copenhagen, Denmark
1.80	Comparison of temperature sensitive stages of wheat, barley, canola, chickpea and field pea across Australia M. Fernanda Dreccer, Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia
1.82	Morpho-physiological indices for drought tolerance in pigeonpea (<i>Cajanus cajan L. Millsp.</i>) genotypes under rainfed and irrigated conditions Khadia Satish, Sardarkrushinagar Dantiwada Agricultural University, India
1.83	Extensive sequencing of a tropically adapted breed – the Brahman Sequencing Project Lambros Koufariotis, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia
1.85	Factors influencing the germination of African turnip weed (<i>Sisymbrium thellungii</i>) Gulshan Mahajan, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia
1.87	Physiological mechanisms underpinning genotypic variation for heat tolerance in mungbean (<i>Vigna radiata L.</i>) Rao (RCN) Rachaputi, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia
1.88	Ethylmethanesulfonate mutagenesis of vernonia (<i>Centropalus pauciflorus var. ethiopica</i>) to enhance seed oil content and fatty acid composition Hussein Shimelis, University of KwaZulu-Natal, South Africa
1.89	Demand-led variety design: Make plant breeding in Africa a business model responsive to market demand Nasser Kouadio Yao, Beca-ILRI Hub, Kenya
1.90	Developing Bayesian networks to advance understanding the relationship between SNP markers and abiotic stress tolerance, yield and yield related traits at different environments Su Latt Phyu, Yezin Agricultural University, Myanmar

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Harnessing Horticultural Crops

2.01	MicroRNA control of vegetative phase transition in <i>Persea americana</i> (avocado) Muhammad Umair Ahsan, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	
2.02	Morphological and molecular characterization of self-pollinated vs naturally out-crossed progeny of macadamia: A case study of 'HAES 741' Mobashwer Alam, The University of Queensland, Australia	
2.03	Molecular screening of selected rice blast resistance genes in elite rice germplasm from the Philippines and other Asian countries John Dave Aquino, Central Luzon State University, Philippines	
2.04	Nucleotide sequence variation of rice tungro viruses in the Philippines John Dave Aquino, Central Luzon State University, Philippines	
2.05	Preharvest and postharvest handling practices of some cut flowers in selected areas of Myanmar Tin May Yu Aung, University of New England, Australia	
2.06	A virtual tree to improve our understanding of macadamia nut production Inigo Auzmendi, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	
2.07	Vegetable Technology Immersion Clusters (VTICs) and Best Hub Practices (BHPs): Innovative approaches to increase vegetable productivity, reduce poverty and malnutrition in Mali Bola Amoke Awotide, The World Vegetable Centre, AVRDC, Mali	
2.08	Arabica coffee provides insights to the complexity and diversity of transcripts in polyploid genomes Bing Cheng, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	
2.09	<i>Capsicum chlorosis</i> virus: Molecular interactions of a tospovirus with its plant host and thrips vector Ralf Dietzgen, The University of Queensland, Australia	
2.10	SCRAM: An ultrafast pipeline for plant small interfering RNA read alignment and visualization Stephen Fletcher, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	
2.11	Inter-cultivar microRNA regulation for avocado adventitious rooting Madeleine Gleeson, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	
2.12	Cryopreservation of avocado (<i>persea americana</i> mill.) for somatic embryos and apical shoot tips using vitrification techniques Jayeni Hiti Bandaralage, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	
2.13	Early screening for <i>Phytophthora cinnamomi</i> resistance in macadamia trees Olumide Jeff-Ego, The University of Queensland, Australia	
2.14	Preference and performance testing of taro aphid <i>Aphis gossypii</i> on the selected cultivars of taro <i>Colocasia esculenta</i> Rashmi Kant, Plant and Food Research, New Zealand	
2.15	Analysis of the NID domain of the capsid protein of banana streak virus and utilization for diagnostics Thu Ha Ngo, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	WITHDRAWN
2.17	Breeding snap bean for domestic and export markets in Eastern Africa Paul Kimani, The University of Nairobi, Kenya	
2.18	Prospects of utilizing wild germplasm for future improvement of macadamia Thuy Mai, The University of Queensland, Australia	
2.19	Searching for extended variability in nut characteristics in wild macadamia gene pool Thuy Mai, The University of Queensland, Australia	
2.20	Novel biomolecule application for Adventitious root induction in desirable plants William Nak, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	
2.21	Coconut cloning: Towards the sustainability of the 'tree of life' Quang Nguyen, The University of Queensland, Australia	
2.22	Identifying markers associated with disease-harboring stick-tights in macadamia Katie O'Connor, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	
2.23	Mesocarp bruising in avocado (<i>Persea americana</i> M) cv 'Hass' fruit post-ripeners and a prototype tool for firmness assessment in retail stores Melinda Perkins, The University of Queensland, Australia	
2.24	Tomato spotted wilt virus and <i>Capsicum chlorosis</i> virus activate RNA silencing of host genes involved in control of virus replication and transmission Jonathan Peters, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	
2.25	Detection and mechanism of rapid transgene methylation during plant transformation Joshua Philips, Queensland University of Technology, Australia	
2.26	Profiling and analysis of reproductive phenology of four coffee (<i>Coffea</i> spp.) species in the Philippines using the BBCH scale Bong Salazar, University of the Philippines Los Baños, Philippines	
2.27	Isolation of Rhizobacteria with broad-spectrum anti-oomycete activity for essential crop protection Sharifah Farhana Syed Ab Rahman, The University of Queensland, Australia	
2.28	Timing of infection of citrus fruit by the citrus black spot pathogen, <i>Phyllosticta citricarpa</i> Nga Tran, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	
2.29	Optimising adaptation decisions in macadamia production using contingent claim valuation Jason West, The University of Queensland, Australia	
2.30	From data to management - a novel agriculture information system to support farm decision-making Chengyuan (Stephen) Xu, Central Queensland University, Australia	

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Harnessing Horticultural Crops

2.31	Agromony of irrigated tea in low elevation growing areas of Sri Lanka Shyamantha Bandara, Tea Research Institute of Sri Lanka, Sri Lanka	
2.32	Linkage map for trait association in mango using DArTseq markers Natalie Dillon, Department of Agriculture and Fisheries, Queensland Government, Australia	
2.33	Breeding for high quality traits in tomatoes for processing in Ghana Rosemary Kusi-adjei, University of Ghana, Ghana	
2.34	Development of Tomato Yellow Leaf Curl Virus (TYLCV) Resistant Tomato (<i>Solanum lycopersicum L.</i>) varieties Leander Dede Melomey, University of Ghana, Ghana	WITHDRAWN
2.35	Overview of tomato ripening mutants and their use in increasing shelf life of tomato fruits Michael Kwabena Osei, University of Ghana, Ghana	
2.36	Tomato breeding: A prerequisite for revitalizing tomato production in Ghana Michael Kwabena Osei, University of Ghana, Ghana	
2.37	Association mapping and SNP discovery using extreme phenotypes for non-volatile compounds selected from a <i>C. arabica</i> diversity population Hue T.M. Tran, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	

Advancing Animal Science

3.01	The effect of bovine endometrial-trophoblast co-culture on the production of prostaglandins Fatema. B Almughlliq, The University of Queensland, Australia	
3.02	Vaccination of livestock in Timor Leste: How successful is it? Acacio Cardoso Amaral, Universidade Nacional Timor Lorosa' e and Institute Politecnico Betano, Timor-Leste	
3.03	Prevalance of <i>Toxocara Vitulorum</i> in Bali cattle calves in central region of Timor Leste Acacio Cardoso Amaral, Universidade Nacional Timor Lorosa' e and Institute Politecnico Betano, Timor-Leste	
3.04	A pen-side test for the rapid diagnosis of bovine respiratory disease Rebecca Ambrose, Department of Agriculture and Fisheries, Queensland Government, Australia	
3.05	Accuracy of imputation with customized panels using common SNPs between two high density panels in Nelore beef cattle Priscila Arriguaci Bernardes, Sao Paulo State University (UNESP), Brazil	
3.06	Progressing antimicrobial sensitivity testing for <i>Avibacterium paragallinarum</i> Pat Blackall, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	
3.07	Competitiveness of turnip weed, common sowthistle and Mexican poppy; the three emerging broad-leaf weeds of the northern region of Australia in a wheat crop Bhagirath Singh Chauhan, The University of Queensland, Australia	
3.08	Effects of creep feeding on live weight gain, coccidial oocyst counts and haematological parameters in goat kids Mo Mo Cho, Livestock Breeding and Veterinary Department, Myanmar	
3.09	A management system reduces mortality of Bali calves in Lombok Dahlan Dahlanuddin, University of Mataram, Indonesia	
3.10	A standardised system for assessing foetal and calf loss in a beef business Geoffry Fordyce, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	
3.11	Timing of foetal and calf loss in north Australian beef herds Geoffry Fordyce, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	
3.12	A method for prioritisation of livestock business interventions for application and research Geoffry Fordyce, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	
3.13	Successful aerial seeding of progardes desmanthus at Wambiana Chris Gardiner, James Cook University, Australia	
3.14	The effects of diet preference on feed intake, digestibility and nitrogen balance of sheep given <i>Iseilema</i> spp. (Flinders grass) hay and or <i>Desmanthus leptophyllus</i> cv JCU 1 ad libitum Chris Gardiner, James Cook University, Australia	
3.15	Small ruminant production in the central dry zone of Myanmar – opportunities to improve livelihoods by addressing constraints to production Elsa Glanville, The University of Melbourne, Australia	
3.16	Cow-calf production in the central dry zone of Myanmar Jenny Hanks, The University of Melbourne, Australia	
3.17	Multi-breed, multi-trait genomic evaluations to improve fertility in northern beef cattle Ben Hayes, The University of Queensland, Australia	
3.18	Pyrolizidine alkaloids – the risk of natural toxins in Queensland honey Natasha Hungerford, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	
3.19	Measuring individual pasture intake of grazing ruminants Aaron Ingham, Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia	
3.20	Immune competence: A selection trait for minimising the cost and impact of disease in cattle and sheep Aaron Ingham, Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia	
3.21	Does size matter for chicken beaks? Amjad Iqbal, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	

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Advancing Animal Science

3.22	Proteomic characterization of cattle tick gut cells – vaccine candidate discovery Thomas Karbanowicz, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia
3.23	Mapping, modelling and management of hillslope gully systems in grazed tropical savanna: The potential of UAV and ground-based structure from motion with multi-view stereo photogrammetry Jack Koci, University of the Sunshine Coast, Australia
3.24	Wolbachia for area-wide control of Buffalo fly? Mukund Madhav, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia
3.25	Characterisation of the in vivo properties of Australian isolates of bovine viral diarrhoea virus 1 Timothy Mahony, The University of Queensland, Australia
3.26	Development of bovine herpesvirus 1 as a multivalent vaccine vector Timothy Mahony, The University of Queensland, Australia
3.27	Prevalence of tick-borne pathogens in cattle within the central dry zone of Myanmar Hnin Moe Thu, Livestock Breeding and Veterinary Department, Myanmar
3.28	Visualising nanoparticle uptake and distribution in sheep ectoparasites Lillian Mukandiwa, The University of Queensland, Australia
3.29	A model for training students in the Master of Veterinary Science training program at the University of Veterinary Science, Myanmar Lwin Naing Oo, University of Veterinary Science, Myanmar
3.30	The comparative assessment of newer tropical pasture grasses and legumes with those previously adopted for cattle production in Vanuatu: First year results Jerine Natapu, Vanuatu Agricultural Research and Technical Centre, Vanuatu
3.31	Degradation of Indospicine by rumen bacteria from naïve cattle and cattle exposed to <i>Indigofera linnaei</i> Gabriele Netzel, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia
3.32	Differences in amino acid appetites between fast vs slow growing chickens are associated with amino acid sensors expression levels in the oral cavity Shahram Niknafs, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia
3.33	Evaluation of fermented camelina meal as a potential broiler feed ingredient Oladapo Oluwaseye Olukomaiya, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia
3.34	Effects of different Papua New Guinea sweetpotato varieties on performance and level of enteric pathogens in chickens Janet Pandi, Papua New Guinea National Agricultural Research Institute, Papua New Guinea
3.35	Livestock feeding systems and feed gaps across agro-ecologies in Tanzania Birthe Paul, International Center for Tropical Agriculture, Kenya
3.36	Identifying tick-resistance in beef cattle through exosomal cargo biomarkers Hassendrini N Peiris, The University of Queensland, Australia
3.37	Effect of combination of urea, cattle manure and elements on yield and nutritive value of Mombasa grass Soe Pyaesan, Livestock Breeding and Veterinary Department, Myanmar
3.38	Effect of body temperature and macroscopic semen characteristics on sperm cell characteristics of South African indigenous bucks Fhulufhelo Vincent Ramukhithi, Agricultural Research Council, South Africa
3.39	Efficiency of supplementation strategies for Nellore cattle rearing in tropical grass pasture Eliéder Romanzini, Sao Paulo State University (UNESP), Brazil
3.40	Tropical pastures management with different nitrogen fertilizer levels: Nitrogen recovery and efficiency of nitrogen utilization Eliéder Romanzini, Sao Paulo State University (UNESP), Brazil
3.41	Genotypic diversity of <i>Pasteurella multocida</i> isolates from pigs in Australia Reema Singh, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia
3.42	Comparison on the digestibility of introduced grasses, napier grass and sorghum through in vitro and in situ method Thin Yatanar Soe, Livestock Breeding and Veterinary Department, Myanmar
3.43	Parasite genomics and vaccine discovery for tropical animal diseases Ala Tabor, The University of Queensland, Australia
3.44	Potential pathogens identified in lung samples from pigs with pleurisy at an abattoir in Queensland Australia Lida Omaleki, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia
3.45	Multi-locus sequencing to define a new species of porcine <i>Actinobacillus</i> Lida Omaleki, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia
3.46	The heat is on! Ascertaining heat tolerance phenotypes or amelioration of feed additives Gene Wijffels, Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia
3.47	Identification of the roles of microRNAs in Bovine Herpesvirus 1 replication and virulence Tristan Wimpenny, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia
3.48	Effect of dietary lycopene on rumen fermentation parameters Chenchen Xu, China Agricultural University, China
3.49	Comparison of chemical composition of different parts of lamb Chenchen Xu, China Agricultural University, China
3.50	Performance, milk fatty acid profile and milk anti-oxidative property of dairy goats fed pomegranate seed pulp and soybean oil Jongkolnee Yaowapaksohon, King Mongkut's Institute of Technology Ladkrabang, Thailand
3.51	Responses in mature lactating <i>Bos indicus</i> cows and growing heifers to diet P deficiency Rob Dixon, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia

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Nutrition and Food Sciences

4.01	Nutritional and anti-nutritional properties of <i>Terminalia ferdinandiana</i> (Kakadu plum) from the Northern Territory, Australia Saleha Akter, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	
4.02	Mechanism of action and antimicrobial activity of Australian native herb essential oils against yeasts and bacteria Fahad Alderees, The University of Queensland, Australia	
4.03	The Mediterranean diet - a healthy model for a sustainable diet Yasmine Aridi, The University of Queensland, Australia	
4.04	Can vitamin C enriched rice improve iron bioavailability in human diets? Ronan Broad, The University of Melbourne, Australia	
4.05	The regulation of anthocyanin biosynthesis in banana James Bryant, Queensland University of Technology, Australia	
4.06	Cooked high amylose wheat impacts the gut microbial community and enzymatic activity Alexander Bui, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	
4.07	Effect of postharvest cool storage on carotenoid content of zeaxanthin-biofortified and standard yellow sweet-corn Paula Calvo, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	
4.08	In vitro antimicrobial effects and mode of action of Kakadu plum (<i>Terminalia ferdinandiana</i>) products against pathogenic and spoilage microorganisms Midusmita Chaliha, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	
4.09	Functional powder from Australian grown white, yellow and red onion tissues Panhchapor Chhim, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	
4.10	A biorefinery of <i>Nannochloropsis</i> for the sustainable production of eicosapentaenoic acid and high-value protein supplements Elvis Chua, The University of Queensland, Australia	
4.11	Do diet, not die: Analysis of dietary diversity in Uzbekistan Alisher Ergashev, Department of Agriculture and Fisheries, Queensland Government, Australia	
4.12	Isolation and identification of fungi from four strawberry cultivars W.Chrishanthi Fernando, The University of Queensland, Australia	
4.13	The impact of variation in oral physiology, behaviour and sensory acuity of individuals on texture perception during oral processing of snack foods Mekonnen Melaku Gebremariam, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	
4.14	Hard science and soft science – harnessing performance data to drive positive food safety behaviours within the primary production sector Mitchell Groves, Safe Food Production Queensland, Australia	
4.15	Improving dark coloured beef primals using High Pressure Processing (HPP) Joanne Hughes, Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia	
4.16	RNAi mediated down regulation of BADH2 gene for expression of 2-acetyl-1-pyrroline in non-scented indica rice IR-64 (<i>Oryza sativa</i> L.) Kiran Khandagale, Savitibai Phule Pune University, India	WITHDRAWN
4.17	Breeding runner beans for canning industry in Kenya Paul Kimani, The University of Nairobi, Kenya	
4.18	Breeding second generation biofortified bean varieties for Africa Paul Kimani, The University of Nairobi, Kenya	
4.19	In vitro bacterial fermentation of cellulose-arabinoxylan composites using porcine faeces Shiyi Lu, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	
4.20	Diversity of Iron and Zinc Grain Content and agronomic performance of selected Bean Germplasm in East Africa Clare Mukankusi, International Center for Tropical Agriculture, Kenya	
4.21	Biofortified precooked common dry beans for enhanced nutrition and environmental conservation: A case study of Uganda and Kenya Stanley Nkalubo, National Crops Resources Research Institute, Uganda	
4.22	Fighting prostate cancer with uniquely coloured tomatoes Adam O'Donoghue, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	
4.23	Sensory descriptive profiling of Flow® Frame honey compared to honey extracted using conventional methods Sandra Milena Olarte Mantilla, The University of Queensland, Australia	
4.24	Exploring protein expression in dormant and germinating barley Sarah Osama, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	
4.25	Phytochemical characteristics and bioactive properties of Australian garlic cultivars Anh Dao Thi Phan, The University of Queensland, Australia	
4.26	Nutritional and physico-chemical properties of native Australian wattle seeds (<i>Acacia Sp.</i>) Kinnari Shelat, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	
4.27	Selection of suitable grasses for animal feeding in the central dry zone of Myanmar Dezin Soe Lwin, University of Veterinary Science, Myanmar	
4.28	The effect of fibre enrichment on bitter taste and satiety in humans Pridhvi Thavaraj, The University of Queensland, Australia	
4.29	Healthy reds and purples - developing an anthocyanin database to create certified standards for new food commodities Tommaso Francesco Villa, Queensland University of Technology, Australia	
4.30	Extracting insoluble dietary fibres from selected fruit and vegetables by blending and mincing method: A preliminary study Widaningrum Widaningrum, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	
4.31	The effect of physiological maturity on the anthocyanin profile of purple sweet corn Hung Hong Trieu, The University of Queensland, Australia	

Poster displays

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Drivers and Consequences of Intensifying Agriculture and Food Systems

5.01	Recovering degraded lands in the Peruvian Amazon by cover crops and sustainable agroforestry systems Julio Alegre, Universidad Nacional Agraria La Molina, Peru	
5.02	Promoting private forestry and agroforestry in Nepal: A policy lab approach Swoyambhu Amatya, Nepal Agroforestry Foundation, Nepal	
5.03	Improving livelihoods of rural smallholders in Myanmar through floriculture Tin May Yu Aung, University of New England, Australia	
5.05	Grain quality and preliminary cooking assessment of wild harvested native <i>Oryza</i> species from the Northern Territory Sean Bellairs, Charles Darwin University, Australia	
5.06	Watermelon as one of the profitable crop for smallholder's farmers: A case study of Rigo District, Central Province, Papua New Guinea Dickson Benny, National Agricultural Research Institute, Papua New Guinea	
5.07	Attitudes towards consumption of traditional leafy vegetables of eight communities in Central Province, Papua New Guinea Dickson Benny, National Agricultural Research Institute, Papua New Guinea	
5.08	Adapting cereals to drought: Genetic and management solutions Andrew Borrell, The University of Queensland, Australia	
5.09	Conservation agriculture: A profitable and sustainable technology for rice-wheat system in eastern plains of Nepal Bedanand Chaudhary, National Rice Research Program, Narc, Nepal	
5.10	The emerging role of weather index-based and parametric insurance in sustainable agriculture and food security: The Philippines case Jo-Dann Darong, De La Salle University, Philippines	
5.11	Strengthening agriculture for marginal and tenant farmers in Eastern Gangetic Plains: Agrarian relations with gender perspective in agricultural value chain Dipika Das, University of Southern Queensland, Australia	
5.12	Intensification options as alternative to rice-fallow cropping system in South Asia Elsa Rakhmi Dewi, Indonesian Agroclimate and Hydrology Research Institute, Indonesia	
5.13	Vegetative oil productivity intensified Anna El Tahchy, Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia	
5.14	Conservation agriculture increases climate resilience for staple food crops and enables farm diversification in southern Africa Joseph Eyre, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	
5.15	CliMate App - a first step in assessing production risk for new and old ventures David Freebairn, University of Southern Queensland, Australia	
5.16	Intensified sweetpotato cultivation depletes the plant available nutrient pool in Highlands, Papua New Guinea soils Ryosuke Fujinuma, The University of Queensland, Australia	
5.17	Water Resource Assessment, Gaps, and Constraints of Vegetable Production in Ethiopia Thomas Gerik, Texas A&M Agrilife Research, USA	WITHDRAWN
5.18	Regional analysis of intensification and water use: A gridded simulation approach using APSIM Mezegebu Getnet, International Crops Research Institute for the Semi-Arid Tropics, India	WITHDRAWN
5.19	Soil nutrients and sorghum (<i>Sorghum bicolor</i> L.) biomass dynamics resulting from crop residues retention and application of P-based fertilizer in semi-arid Kenyan environment Patrick Gicheru, Kalro, Kenya	
5.20	Grazing systems intensification: Challenges and opportunities Cecile Marie Godde, Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia	
5.21	Estimating changes of net greenhouse gas emissions and emissions intensities from productivity improvements in smallholder agriculture Uwe Grever, Food and Agriculture Organization of the United Nations, Italy	
5.22	Successful elements of existing on-farm irrigation water management initiatives in Pakistan Faizan UI Hasan, Pakistan Council of Research in Water Resources, Pakistan	
5.23	Groundwater - a driver for investigation of food production and sustainability concerns in subtropics - case study of Bari Doab, Punjab, Pakistan Ghulam Zakir Hassan, Irrigation Research Institute Government of the Punjab, Pakistan	
5.24	Managing risk of seasonal climate variability in rainfed maize-based cropping systems of central and southern rift valley of Ethiopia Solomon Hassen, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia	
5.25	"We have a vehicle but no tyres" – challenges for technology adoption in rural Pakistan Sandra Heaney-Mustafa, The University of Canberra, Australia	
5.26	Surviving the arid Sumbawa in eastern Indonesia through cattle fattening based on forage tree legume diet Nurul Hilmia, Assessment Institute For Agricultural Technology, Indonesia	
5.27	Consequences of agriculture policies to improve food security and poverty reduction in rural Myanmar Thida Hlaing, The University of New England, Australia	
5.28	Nutrient and water management on sands and its role in food security and environmental sustainability in south central coastal Vietnam Hoang Thi Thai Hoa, Hue University, Vietnam	
5.29	Mechanisation and conservation agriculture (CA) for smallholders- and its role in food security and environmental sustainability Md. Anwar Hossen, Bangladesh Rice Research Institute, Bangladesh	

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Drivers and Consequences of Intensifying Agriculture and Food Systems

5.30	Women's role in irrigation management in south Asia Uzma Iqbal, National Agriculture Research Center, Pakistan
5.31	Contributing to food security in developing countries through investment in northern Australia's live cattle export supply chain infrastructure Margaret Jewell, Premise, Australia
5.32	A practical approach to the implementation of good agricultural practices in intensive agricultural systems in Southeast Asia Rashmi Kant, Plant and Food Research, New Zealand
5.33	Mapping the distribution of abaca bunchy top in different cropping systems and analysing epidemic risks in the Zamboanga Peninsula Ana Liza Lopez, Jose Rizal Memorial State University, Philippines
5.34	Challenges and options for sustainable intensification of cropping system in the salt affected coastal zone of Indian Sundarbans Buddheswar Maji, ICAR-Central Soil Salinity Research Institute, India
5.35	Happiness among farmers: A mixed method study on the meaning of happiness in a rural community Romeo Lopez, Jose Rizal Memorial State University, Philippines
5.36	Reducing downside risks among smallholder maize farmers in Ethiopia: Assessing the impacts of maize-legume diversification using farm-level panel data Paswel Marenya, International Maize and Wheat Improvement Center (CIMMYT), Ethiopia
5.37	How to develop effective communication strategies to disseminate new agricultural technologies in highly traditional, low literacy farming communities where the reach of mass media is limited Chris McGillion, Australian National University, Australia
5.38	Comparative study between carbon coating, ENTEC and standard urea on nitrogen release and uptake Lachlan McWilliam, Glasshouse Christian College, Australia
5.39	Adaptation options for cassava production under different climate futures for Fiji Elizabeth Meier, Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia
5.41	Sustainable Intensification in Eastern and Southern Africa: What is in it for the region's farmers? Mulugetta Mekuria, International Maize and Wheat Improvement Center (CIMMYT), Zimbabwe
5.42	Effects of conventional and conservation agriculture tillage practices on common bean (<i>Phaseolus vulgaris</i> L.) yields in the upper-midland areas of Eastern Kenya Alfred Micheni, Kenya Agricultural and Livestock Research Organization, Kenya
5.43	Tillage practices on quality of humic-nitisol soils in the upper midlands in Eastern Kenya Alfred Micheni, Kenya Agricultural and Livestock Research Organization, Kenya
5.44	Adoption of sustainable intensification in dual-purpose millet - leguminous crops - livestock systems for rural small holder farmers in Senegal Doohong Min, Kansas State University, USA
5.45	Quantifying the economic and adoption impacts of introducing a legume crop in smallholder rice-cattle farms of southern Lao Marta Monjardino, Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia
5.46	Experiences in participating in agricultural innovation platforms for improved livelihoods of smallholder farmers in Eastern Kenya Flora Mucheke, Geeto SIMLESA Agricultural Innovation Platform, Kenya
5.48	Relationships between milk production sustainability performances at farm level and sustainability dimensions of producers' organizations (PO) level WITHDRAWN Celestin Munyaneza, International Livestock Research Institute (ILRI), Kenya
5.49	Does gender matter in the adoption and adaptation of sustainable agricultural intensification practices? Evidence from central Mozambique Maria Quinhentos, International Maize and Wheat Improvement Center (CIMMYT), Zimbabwe
5.50	Head rice and grain yield of diverse rice cultivars grown under aerobic and water-deficit conditions Ohnmar Myint, The University of Queensland, Australia
5.51	Soil sodicity-a threat to agricultural sustainability in the semi-arid tropics Sara Niaz, The University of Queensland, Australia
5.52	Providing rural based cattle sales yards to exploit market access opportunities for resource poor farmers in KwaZulu Natal province of South Africa Simphele Nini, Agricultural Research Council, South Africa
5.53	Quality of <i>Melaleuca citrolens</i> (gulban) leaves from different regions of Australian Northern Territory Nilesh Nirmal, The University of Queensland, Australia
5.54	Livestock and fish value chain transformation: An interdisciplinary process An Notenbaert, International Center for Tropical Agriculture, Kenya
5.55	Tactical agronomy for maize in the northern region Daniel Rodriguez, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia
5.56	Organic agriculture on smallholder farming systems by sustainable oil palm-beef cattle integration in Indonesia Muhamad Nasir Rofiq, BPPT, Indonesia
5.57	Conservation agriculture: A commendable option for sustainable agriculture development in Rwanda Pascal Rushemuka, Rwanda Agriculture Board, Rwanda
5.58	Improved maize and legume as drivers of sustainable intensification in eastern and southern Africa Mulugetta Mekuria, International Maize and Wheat Improvement Center (CIMMYT), Zimbabwe

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Drivers and Consequences of Intensifying Agriculture and Food Systems

5.59	Nutrition and livelihood impacts of growing fruits and vegetables: Evidence from rural Ethiopia Konjit Mussie Shamero, Ministry of Public Service & Human Resource Development, Ethiopia
5.60	Diversifying the Australian food system: Conceptualising the incorporation of novel grains into the food supply as an agricultural innovation Thomas Simnadis, University of Waikato, New Zealand
5.61	Crop-biodiversity conservation and its role in food security in smallholding farming systems of Eastern Kenya tropics Simon Mburu, Kenyatta University, Kenya
5.62	Closing the nutritional gap of children in smallholder farming households in southern Mali: The role of vegetable production, nutrition and hygiene training Caroline Sobgui, The World Vegetable Centre, AVRDC, Mali
5.63	Agriculture in the tropics - managing weather and climate risks Peter Stone, Bureau of Meteorology, Australia
5.64	Gender and value chain development: A case study of place-based community engagement in rural Pakistan Sajida Taj, University of Canberra, Australia
5.65	Does large mound culture increase growth and yield of sweet potato? Prapa Taranet, The University of Queensland, Australia
5.66	Understanding disaster risk and mitigation measures in Malawi's smallholder agriculture: Initial findings Maria Quinhentos, International Maize and Wheat Improvement Center (CIMMYT), Zimbabwe
5.67	Mapping mixed crop-livestock and multiple cropping systems Katharina Waha, Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia
5.69	Understanding household diversity in eastern and southern Africa Erin Lynn Wilkus, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia
5.70	Post harvest management of fruits-approaching towards food security WITHDRAWN Syed Abdul Sadiq, Agriculture College Quetta, Government of Balochistan, Pakistan
5.73	An assessment of opportunities and constraints in the maize-legume value chains in central Mozambique Maria Quinhentos, International Maize and Wheat Improvement Center (CIMMYT), Zimbabwe
5.74	Developing sustainable agricultural intensification technologies for small holder farmers: Evidences and lessons from SIMLESA in central Mozambique Mulugetta Mekuria, International Maize and Wheat Improvement Center (CIMMYT), Zimbabwe
5.79	Behavioural response of bee keepers and adaption to climate variability in South East, Nigeria Chigozirim Onwusiribe, Michael Okpara University of Agriculture Umudike, Nigeria
5.80	Nigeria honey production and imports: The role of policy and climate variation Chigozirim Onwusiribe, Michael Okpara University of Agriculture Umudike, Nigeria
5.82	Impact of climate smart technologies on social economy for small scale farmers: Lessons from SIMLESA Tanzania John Sariah, Selian Agricultural Research Institute, Tanzania

AgFutures Queensland

6.01	Adoption potential of Virtual Irrigation Academy (VIA) tools in Pakistan Bareerah Fatima, Pakistan Council of Research in Water Resources, Pakistan
6.02	Micropropagation: The future of clonal propagation of avocado Jayeni Hiti Bandaralage, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia
6.03	Nanoparticle-mediated delivery of RNAi for management of the cotton bollworm (<i>Helicoverpa armigera</i>) Zhi Xian Lim, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia
6.04	Nanotechnology for animal vaccines Karishma Mody, Queensland Alliance for Agriculture and Food Innovation (QAAFI), Australia
6.05	Assessing the efficacy of chemical and organic nematicide products to control root-knot nematode damage in sweet potato Cheng-Yuan (Stephen) Xu, Central Queensland University, Australia