

Science Protecting Plant Health Conference

26 – 28 September 2017

Brisbane Australia

Program

Day 0 - Monday 25 September 2017

13:00-17:00	Student Professional Development Workshop	Rydges Southbank
17:00-18:00	Registrations Open	Room: Plaza Auditorium Registration Desk
18:00-19:30	Welcome Reception	Room: Skyroom BCEC
19:30-21:00	Council of the Society Meeting Dinner (by invitation only)	Rydges Southbank

Day 1 - Tuesday 26 September 2017

07:00-08:00	APPS Management Committee Breakfast (by invitation only)	Room: TBC
07:30-17:30	Registration Open	Room: Plaza Auditorium Registration Desk
08:00-09:00	Opening Ceremony	Room: Plaza Auditorium
09:00-10:00	Plenary 1: Daniel McAlpine Memorial Lecture - Prof Barbara Howlett Topic: A genome to paddock approach to control plant disease	Room: Plaza Auditorium
10:00-10:30	Morning Tea	Room: Plaza Auditorium Foyer
10:30-12:00	Concurrent Sessions	Room: Plaza Auditorium & Rooms P6 – P10

Resistance Breeding	Pest and Pathogen Evolution and Diversity	Community and Industry Engagement	Modelling and Pest Risk Analysis	Diagnostics
Keynote: Dr Lee Hickey Topic: Standing on the shoulders of giants: Vavilov's wheat collection and sources of resistance	Keynote: Dr Mark Schutze Topic: Linking molecules to morphology: Fruit fly integrative taxonomy	Keynote: Mr Trevor Nicholls Topic: Building plant health systems to improve nutrition and livelihoods worldwide	Keynote: Dr Dean Paini Topic: Modelling invasive species arrival and establishment	Keynote: Dr Grant Smith Topic: Point of contact diagnostics. Biosecurity pest identification in the genomics age
Presenter: Mr Adnan Riaz Topic: Unlocking novel alleles for resistance to leaf rust in the Vavilov wheat collection	Presenter: Dr Diane Mostert Topic: The banana wilt fungus <i>Fusarium oxysporum</i> f.sp. <i>cubense</i> is even more diverse than previously anticipated	Presenter: Ms Heleen Kruger Topic: The influence of the local social profile on establishing grower and community collaboration: " The case of industry-driven fruit fly area-wide management"	Presenter: Dr Florian Schwarzmuller Topic: Fighting Queensland Fruit Fly <i>in silico</i> : spatially explicit modelling to inform management strategies	Presenter: Dr Linda Zheng Topic: On-site detection of <i>Potato spindle tuber viroid</i> in a disease outbreak using loop-mediated isothermal amplification (LAMP)

<p>Presenter: Mr Jason Sheedy</p> <p>Topic: Selecting wheat cultivars that combine root-lesion nematode (<i>Pratylenchus thornei</i> and <i>P. neglectus</i>) resistance and <i>P. thornei</i> tolerance.</p>	<p>Presenter: Ms Barsha Poudel</p> <p>Topic: Sexual reproduction between <i>Pyrenophora teres</i> f. <i>teres</i> and <i>Pyrenophora teres</i> f. <i>maculata</i> is rare in barley field populations</p>	<p>Presenter: Ms Johanna Couchman</p> <p>Topic: Crop pathology online 24/7/365 - does it deliver?</p>	<p>Presenter: Dr Loup Rimbaud</p> <p>Topic: Assessing the performance of landscape-based strategies to deploy major-gene resistance</p>	<p>Presenter: Dr Roberto Barrero</p> <p>Topic: An internet-based bioinformatics toolkit for Plant Biosecurity diagnosis and surveillance of viruses and viroids</p>
<p>Presenter: Ms Brittney Caruana</p> <p>Topic: Advanced genomics for improved disease resistance prediction in potato</p>	<p>Presenter: A/Prof Celeste Linde</p> <p>Topic: Host specificity in net form of net blotch of barley and barley grass caused by <i>Pyrenophora teres</i> f.sp. <i>teres</i></p>	<p>Presenter: Ms Dominic Wright</p> <p>Topic: I spy.....using a community surveillance tool to inform scientists of a possible threat to the agricultural industry</p>	<p>Presenter: Dr Suzy Perry</p> <p>Topic: Risk assessment and application of the Military Appreciation Process to involve growers in emergency response decision making</p>	<p>Presenter: Dr Amanda Baizan-Edge</p> <p>Topic: A new bioinformatics pipeline for the rapid detection of plant viruses using next generation sequencing data</p>
<p>Presenter: Dr Anna Avrova</p> <p>Topic: Development of markers to allow incorporation of complementary resistance genes to <i>Rhynchosporium</i> into elite barley varieties</p>	<p>Presenter: Dr Jacqueline Edwards</p> <p>Topic: Genotyping of potato cyst nematode in Victoria, Australia, and comparison with populations from Europe and the Americas</p>	<p>Presenter: Mr Alby Marsh</p> <p>Topic: Building resilience in indigenous communities through engagement</p>	<p>Presenter: Dr Maggie Triska</p> <p>Topic: Optimizing the surveillance of invading organisms: Can we improve standard surveillance strategies?</p>	<p>Presenter: Dr Angela Freeman</p> <p>Topic: The use of NGS to identify quarantine pathogens and genomic traits for breeders in tropical pulse germplasm imported by the Australian Grains Genebank.</p>

12:00-13:00 Lunch **Room:** Plaza Auditorium Foyer

Plenary 2 - Dr Mark Hoddle

13:00-14:00 **Topic:** What can we realistically expect from biocontrol of insect vectors of plant pathogens: is significant disease mitigation possible? **Room:** Plaza Auditorium

Plenary 3 - Prof Roger Innes

14:00-15:00 **Topic:** Extracellular vesicles: an underappreciated component of the plant immune system **Room:** Plaza Auditorium

15:00-15:30 Afternoon Tea **Room:** Plaza Auditorium Foyer

15:30-17:00 Concurrent Sessions **Room:** Plaza Auditorium & Rooms P6 – P10

Pest and Pathogen Surveillance	Emerging Pests and Diseases	Epidemiology	Integrated Pest and Disease Management	Responding to Pest and Pathogen Incursions
<p>Keynote: Dr Brian McCornack</p> <p>Topic: Optimising surveillance protocols using unmanned aircraft systems: the power of perspective</p>	<p>Keynote: Prof Sarah Gurr</p> <p>Topic: Fungal crop diseases and food security</p>	<p>Keynote: Prof Chris Gilligan</p> <p>Topic: Use of epidemiological models to predict the spread and potential for control of tree diseases</p>	<p>Keynote: Prof Gerhard Pietersen</p> <p>Topic: Grapevine leafroll disease control in white cultivars</p>	<p>Keynote: Ms Sarah Corcoran</p> <p>Topic: Plant Biosecurity just goes with the Territory</p>

<p>Presenter: Dr Kevin Powell</p> <p>Topic: The use of UAS obtained imagery to detect early stages of pest incursions: case study of grape phylloxera in vineyards</p>	<p>Presenter: Prof Ruth Dill-Macky</p> <p>Topic: Bacterial Leaf Streak: an emerging disease of wheat in the Upper Midwest</p>	<p>Presenter: Mr Denis Persley</p> <p>Topic: A disease of French beans and soybean caused by Cowpea mild mottle virus in Queensland</p>	<p>Presenter: Ms Melissa Cook</p> <p>Topic: Management of yellow spot (<i>Pyrenophora tritici-repentis</i>) in wheat through paddock selection, variety selection and in-crop management</p>	<p>Presenter: Mr Nicholas Woods</p> <p>Topic: National plant pest surveillance: an innovative approach to national coordination and knowledge creation</p>
<p>Presenter: Dr Fernando Vanegas</p> <p>Topic: UAS remote sensing efforts for myrtle rust management</p>	<p>Presenter: Dr Hunter Laidlaw</p> <p>Topic: Using biology to develop a targeted biosecurity strategy for risk management of brown marmorated stink bug, <i>Halyomorpha halys</i></p>	<p>Presenter: Ms Elrea Strydom</p> <p>Topic: Alternative hosts, seed transmissibility and persistent-propagative replication of <i>Soybean blotchy mosaic virus</i></p>	<p>Presenter: Dr Linda Smith</p> <p>Topic: Can reniform nematode (<i>Rotylenchulus reniformis</i>) in Australian cotton be managed by crop rotation?</p>	<p>Presenter: Dr Karen Armstrong</p> <p>Topic: How robust are stable isotope and trace element signatures for the assessment of a fruit fly's geographic origin?</p>
<p>Presenter: Dr Eric Grist</p> <p>Topic: Optimal surveillance strategies for invasive plant pathogens using a spatial stochastic algorithmic mapping approach</p>	<p>Presenter: Dr Kathy Braithwaite</p> <p>Topic: Ramu stunt: an important biosecurity threat to the Australian sugarcane industry</p>	<p>Presenter: Mr Jens Froese</p> <p>Topic: Modelling outbreak risk of wheat stripe rust to inform on-farm crop monitoring</p>	<p>Presenter: A/Prof Adam Sparks</p> <p>Topic: Do alternate wetting and drying irrigation technologies and nitrogen rates affect rice sheath blight?</p>	<p>Presenter: Mr Geoffery Kent</p> <p>Topic: The future of the National Red Imported Fire Ant Eradication Program</p>
<p>Presenter: Dr Audrey Leo</p> <p>Topic: Monitoring of airborne <i>Sclerotinia sclerotiorum</i> ascospores in southern New South Wales canola growing regions using quantitative PCR</p>	<p>Presenter: Dr Murray Sharman</p> <p>Topic: Phytoplasma disease outbreaks in multiple crops in eastern Australia</p>	<p>Presenter: Ms Nga Tran</p> <p>Topic: Do ascospores play a role in the epidemiology of citrus black spot?</p>	<p>Presenter: Dr Elizabeth Dann</p> <p>Topic: Investigating biofumigation and composted chicken manure to manage soilborne pathogens of avocado</p>	<p>Presenter: Dr Livinus Emebiri</p> <p>Topic: Managing biosecurity risk of exotic insect pest and pathogen incursions in wheat through pre-emptive breeding</p>

1700-18:00 Poster Viewing

Room: Plaza Auditorium Foyer

18:00 Close of Day 1

19:00 Informal Dinners – Regional Councillors, Special Interest Groups etc

19:00 International Speakers Dinner (by invitation only)

Day 2 - Wednesday 27 September 2017

07:00-09:00 APPS President's Breakfast (by invitation only)

Room: TBC

08:00-17:00 Registration Open

Room: Plaza Auditorium Registration Desk

09:00-09:55 **APPS President's Address - Dr Kim Plummer**

Topic: How to build a plant pathologist

Room: Plaza Auditorium

09:55-10:00 **Ms Shakira Johnson**

Topic: Let's talk about importing plant research materials: new ways to find out how

Room: Plaza Auditorium

10:00-10:30 Morning tea

Room: Plaza Auditorium Foyer

10:30-12:00 Concurrent Sessions

Room: Plaza Auditorium & Rooms P6 – P10

Pest Ecology	Molecular Plant-Pathogen Interactions	Diagnostics	Biosecurity Policy	Epidemiology
<p>Keynote: Dr Mark Hoddle Topic: Palmageddon: the ongoing invasion problem with palm killing weevils</p>	<p>Keynote: Prof Peter Waterhouse Topic: Genome editing for plant defence</p>	<p>Keynote: Ms Barbara Hall Topic: Implementing Australia's National Plant Biosecurity Diagnostic Strategy</p>	<p>Keynote: Ms Sally Troy Topic: National plant biosecurity challenges and opportunities</p>	<p>Keynote: Prof Eileen Scott Topic: Objective measures for assessment of powdery mildew on grape berries</p>
<p>Presenter: Mr Francesco Martoni Topic: Phylogeny, ecology and amplicon sequencing of the New Zealand Psylloidea (Hemiptera: Sternorrhyncha) reveals interesting insect-plant-bacteria interactions.</p>	<p>Presenter: Dr Kim Plummer Topic: Hunting down specific triggers of resistance to the apple scab fungus</p>	<p>Presenter: Dr Mark Blacket Topic: Molecular identification of trapped insects: Metabarcoding for improved monitoring and surveillance of insect pests</p>	<p>Presenter: Dr David Cook Topic: Eradicating Coconut Rhinoceros Beetle from Hawaii: Do the benefits outweigh the costs?</p>	<p>Presenter: Dr Sandra Savocchia Topic: Investigations on the spore dispersal patterns of eutypa and botryosphaeria dieback pathogens in Australian vineyards</p>
<p>Presenter: Mr Alexander Piper Topic: The importance of yeasts in the ecology and control of the Queensland fruit fly</p>	<p>Presenter: Ms Shakira Johnson Topic: Teasing apart the differences between Asian and European pear scab disease to reveal the molecular mechanisms of host-specificity and non-host resistance</p>	<p>Presenter: Mr Wycliff Kinoti Topic: The application of generic amplicon next generation sequencing to determine llarvirus species diversity in Prunus .</p>	<p>Presenter: Dr Ian Porter Topic: The impact of global regulations under the Montreal Protocol on soilborne disease control, biosecurity and the climate</p>	<p>Presenter: Dr Paul Melloy Topic: Increased carbon-dioxide affects crown rot incidence, severity and pathogen colonisation in wheat reducing potential grain yield.</p>
<p>Presenter: Dr Rebekah Frampton Topic: Whole mitochondrial genome sequencing reveals diversity of <i>Bactericera cockerelli</i> (tomato potato psyllid) in New Zealand</p>	<p>Presenter: Dr Dharmendra Singh Topic: Deciphering the molecular mechanisms of Lr34 -mediated disease resistance in wheat</p>	<p>Presenter: Dr Agata Kaczmarek Topic: SPOREID - Innovative disease monitoring and diagnostics for improved efficiency of crop production</p>	<p>Presenter: Dr Brian Garms Topic: A new approach for conducting pest risk analyses – the Group Pest Risk Analysis</p>	<p>Presenter: Dr Julia Cremer Topic: Distribution and epidemiology of viruses infecting garlic in Australia</p>
<p>Presenter: Ms Donna Chambers Topic: The effect of groundcovers on survival of Banana rust thrips <i>Chaetanaphothrips signipennis</i> (Bagnall) (Thysanoptera: Thripidae)</p>	<p>Presenter: Ms Peri Tobias Topic: Identification of candidate genes involved in resistance to <i>Austropuccinia psidii</i> (myrtle rust) in <i>Syzygium luehmannii</i> (Riberry)</p>	<p>Presenter: Dr Regina Billones-Baaijens Topic: Development of quantitative PCR assays to detect and quantify inoculum of grapevine trunk disease pathogens from environmental samples</p>	<p>Presenter: Dr Richard Lardner Topic: Plant post entry quarantine in New Zealand - working with industry to develop new regulations</p>	<p>Presenter: Dr Mary Finlay-Doney Topic: Cucumber green mottle mosaic virus and honey bee pollinators</p>

12:00-13:00 Lunch

Room: Plaza Auditorium Foyer

12:00-13:00 **Students Lunch Supported by APPS – Guest Speaker Phil O'Brien**

Room: TBC

13:00-14:00 **Plenary 4 - Dr Nancy Schellhorn**

Topic: Tools, technologies and transdisciplinary science of area-wide management of insects

Room: Plaza Auditorium

14:00-15:00 **Poster Viewing**

Room: Plaza Auditorium Foyer

14:00-15:00 Annual General Meeting of APPS

Room: Plaza Auditorium

15:00-15:30 Afternoon tea

Room: Plaza Auditorium Foyer

15:30-17:00 Concurrent Sessions

Room: Plaza Auditorium & Rooms P6 – P10

Forest Pathology and Entomology	Agrochemicals & Biopesticides	Soil Health	Diagnostics	Facilitating Trade
Keynote: Dr Angus Carnegie Topic: The risks and costs of exotic pests to Australia's forest industry, conservation forests and amenity trees	Keynote: Prof Gero Steinberg Topic: Live cell imaging provides unique insights into fungicide mode of action	Keynote: Prof Linda Kinkel Topic: Interaction networks shed light on the ecology and coevolution of soil microbiomes	Keynote: Dr Toni Chapman Topic: From genomics to diagnostic development, the citrus canker story	Keynote: Dr Craig Hull Topic: Impact of fruit flies on international market access and what the scientific community can do to help
Presenter: Ms Anya Ambrose Topic: Threat of diseases of forest plantation in Sarawak, Borneo, Malaysia	Presenter: Dr Kalman Vaczy Topic: The <i>CytB</i> gene structure and resistance to QoI fungicides in the grape black rot pathogen, <i>Guignardia bidwellii</i> , and related species	Presenter: Dr Pervaiz Abbasi Topic: Determining the effect of strawberry production cycle and mulch type on plant health, fruit yield, and root pathogens	Presenter: Dr Grant Smith Topic: A novel <i>Candidatus</i> Liberibacter species associated with <i>Ctenarytaina fuchsiae</i> , the New Zealand native fuchsia psyllid	Presenter: Dr Rieks van Klinken Topic: Knowing what you have: the benefits and challenges of maintaining national plant pest lists
Presenter: Dr Manon Griffiths Topic: Mapping and trapping - protecting Queensland's pine resource.	Presenter: Dr Joel Vanneste Topic: Effects of copper used for control plant pathogenic bacteria: the case of <i>Pseudomonas syringae</i> pv. <i>actinidiae</i> (Psa)	Presenter: Mr Wossen Mengesha Topic: Suppression of potato bacterial wilt with non-aerated compost tea and factors which influence efficacy	Presenter: Ms Jacqueline Morris Topic: Characterisation of ' <i>Candidatus</i> Liberibacter brunswickensis' identified in the Australian eggplant psyllid	Presenter: Ms Lisa Jamieson Topic: Postharvest market access treatments for horticultural commodities: Developing pre-approved and standardised quarantine treatments for fruit flies
Presenter: Dr Rebecca McDougal Topic: <i>Cyclaneusma minus</i> morphotypes and their distribution in <i>Pinus radiata</i> forests in New Zealand	Presenter: Ms Karina Griffin Topic: Copper tolerance in <i>Pseudomonas syringae</i> pv. <i>tomato</i> from tomatoes in Queensland, Australia	Presenter: Dr Helen Hayden Topic: Transcriptionally active wheat rhizosphere microbiomes in fields suppressive and non-suppressive for <i>Rhizoctonia solani</i> AG 8	Presenter: Dr Julie Pattemore Topic: Discrimination between viable and dead <i>Xanthomonas fragariae</i> on strawberry host tissue by PCR	Presenter: Ms Pauline Wyatt Topic: Low-dose methyl bromide fumigation as a quarantine treatment against Queensland fruit fly to improve exports of Australian capsicums
Presenter: Dr Geoff Pegg Topic: Myrtle rust - impact on native Myrtaceae and associated plant communities	Presenter: Dr Dean Metcalf Topic: Biological control of <i>Botrytis cinerea</i> in grapes	Presenter: Dr Tony Pattison Topic: Engineering banana cropping systems to suppress soil borne diseases	Presenter: Dr Tracey Steinrucken Topic: Diagnosing 'dieback': A protocol for determining the cause of endophyte-associated mortality in plants	Presenter: Dr Paul Mwebaze Topic: Cost-benefit analysis of a risk profiling tool to optimise biosecurity inspections for the Asian gypsy moth

17:00 Close of Day 2

19:00 Conference Dinner - Allen Kerr Award, Lester Burgess Award

Brisbane City Hall

Day 3 - Thursday 28 September 2017

08:00-17:00 Registration Open **Room:** Plaza Auditorium Registration Desk

09:00-10:00 **Plenary 5 - Prof Chris Gilligan** **Room:** Plaza Auditorium
Topic: When, where and how to prepare for and manage emerging epidemics

10:00-10:30 Morning Tea **Room:** Plaza Auditorium Foyer

10:30-12:00 Concurrent Sessions **Room:** Plaza Auditorium & Rooms P6 – P10

Post-harvest Protection from Pests	Biological Control	Molecular Plant-Pathogen Interactions	On-farm Biosecurity	Tree Pathology and Entomology
<p>Keynote: Prof Christos Athanassiou Topic: Novel technologies in stored product protection: the European perspective</p>	<p>Keynote: Prof Gavin Ash Topic: Use of genomics to improve biological control</p>	<p>Keynote: Prof Roger Innes Topic: Using decoys to expand the recognition specificity of plant disease resistance proteins</p>	<p>Keynote: Dr Sharyn Taylor Topic: National Farm Biosecurity Initiatives</p>	<p>Keynote: Dr Akif Eskalen Topic: Fusarium dieback in California and other ambrosia beetle associated diseases of avocado and urban forest</p>
<p>Presenter: Mr Robin Reid Topic: Challenge of insect control in Australian grain industry</p>	<p>Presenter: Ms Jing Liu Topic: Identification of culturable endophytes isolated from apple tissues with antagonism towards <i>Neonectria ditissima</i></p>	<p>Presenter: Prof Mike Jones Topic: Host-induced gene silencing: application to control nematode and aphid pests</p>	<p>Presenter: Mr John McDonald Topic: On-farm biosecurity delivers market access</p>	<p>Presenter: A/Prof Victor Galea Topic: Dynamics of dieback in a naturally occurring parkinsonia population</p>
<p>Presenter: Dr Rajeswaran Jagadeesan Topic: Integrated approach to manage strong resistance to phosphine (PH₃) in rusty grain beetle, <i>Cryptolestes ferrugineus</i></p>	<p>Presenter: Dr Stanley Bellgard Topic: Cut-stump biocontrol of willow and poplar using the wood rot fungi <i>Chondrostereum</i> and <i>Trametes</i> as residue-free alternatives in wetland and water catchments</p>	<p>Presenter: Dr Jonathan Anderson Topic: Comparative secretome analysis of <i>Rhizoctonia solani</i> isolates reveals unique secretomes and cell death inducing effectors.</p>	<p>Presenter: Ms Luise Sigel Topic: CropSafe - A biosecurity surveillance network for broadacre plant diseases - Does it work?</p>	<p>Presenter: Ms Tamara Taylor Topic: The impact of <i>Austropuccinia psidii</i> (myrtle rust) on the endangered <i>Gossia gonoclada</i> in south east Queensland</p>
<p>Presenter: Mr Peter Botta Topic: Australia's On-Farm Grain Storage Extension Project a national initiative improving stored grain pest management and maintaining phosphine fumigation efficacy on-farm for the Australian grains industry.</p>	<p>Presenter: Prof Levente Kiss Topic: Pitfalls of molecular identification of biocontrol fungi used in sustainable agriculture: an alarming case study</p>	<p>Presenter: Dr Candace Elliot Topic: A comparison of metabolites produced by the fungus <i>Leptosphaeria maculans</i> during competition with <i>Leptosphaeria biglobosa</i> and during canker formation in the stems of <i>Brassica napus</i> cv. Westar</p>	<p>Presenter: Ms Rachel Taylor-Hukins Topic: Australia's Grains Farm Biosecurity Program - a national initiative in plant biosecurity awareness, education and training</p>	<p>Presenter: Ms Katherine Berthon Topic: Mapping the threat of myrtle rust to Myrtaceae in Australia</p>

Presenter: Ms Judy Bellati Topic: Enhancing surveillance for exotic pests of stored grain using a partnership approach with industry and government	Presenter: Dr Belinda Stummer Topic: Suppression of Fusarium Crown Rot in wheat by endophytic <i>Trichoderma</i>	Presenter: Mr Tohidul Islam Topic: Root transcriptome analysis of resistance against <i>Phytophthora cinnamomi</i> using RNA-seq and the association of Î²-cinnamomin elicitin with virulence	Presenter: Ms Shanara Veivers Topic: Quaternary ammonium based disinfectants for effective on-farm biosecurity management of Panama disease in bananas	Presenter: Ms Sarah Hsieh Topic: Transcriptome profiling of Broadleaf Paperbark (<i>Melaleuca quinquenervia</i>) challenged by Myrtle Rust (<i>Austropuccinia psidii</i>) revealed variation in defence responses among resistant individuals
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12:00-13:00 Lunch **Room:** Plaza Auditorium Foyer

12:00-13:00 **Editor's Lunch** **Room:** TBC

13:00-13:55 **Plenary 6 - Prof. Linda Kinkel**
Topic: Diffuse symbioses: competition, coevolution, and pathogen suppression in the rhizosphere. **Room:** Plaza Auditorium

13:55-14:00 **Message from GRDC** **Room:** Plaza Auditorium

14:00-15:00 **Poster Viewing** **Room:** Plaza Auditorium Foyer

15:00-15:30 Afternoon tea **Room:** Plaza Auditorium Foyer

15:30-17:00 **Concurrent Sessions** **Room:** Plaza Auditorium & Rooms P6 – P10

Pest and Pathogen Evolution and Diversity	Plant-Viral-Vector Interactions	Novel Methods of Pest and Pathogen Control	Pest and Pathogen Surveillance	Combating Fusarium Wilt
Keynote: Dr Brendan Rodoni Topic: Where do plant bacterial diseases come from?	Keynote: Prof Michael Goodin Topic: Modification of plant nuclei by negative-strand RNA viruses	Keynote: Prof Neena Mitter Topic: Agro-nano innovations: game changers for crop protection	Keynote: Dr Jenny Davidson Topic: New technologies for detection of pest and diseases affecting the grains Industry	Keynote: Dr Louise Thatcher Topic: Molecular-based strategies for combating Fusarium wilt disease of legumes
Presenter: Prof Gerhard Pietersen Topic: 'Candidatus Liberibacters' in indigenous Rutaceous species from South Africa	Presenter: A/Prof Ralf Dietzgen Topic: Differentially expressed genes in response to capsicum chlorosis virus infection in the capsicum host and thrips vector	Presenter: Dr Mohammad Reza Safarnejad Topic: Developing of transgenic plants producing plantibodies against <i>Ca. Phytoplasma aurantifolia</i>	Presenter: Dr John Weiss Topic: Evaluating different passive/ interception traps for monitoring long distance wind dispersal of insects into Australia.	Presenter: Ms Elizabeth Czisowski Topic: Investigating the molecular mechanisms of pathogenicity of the banana pathogen, <i>Fusarium oxysporum</i> f.sp. <i>cubense</i>
Presenter: Ms Olumide Jeff-Ego Topic: Are multiple <i>Phytophthora</i> species associated with macadamias?	Presenter: Ms Lara-Simone Pretorius Topic: Viral small RNAs that target plant genes and artificial miRNA that target plant viruses	Presenter: Dr Christian Krill Topic: Isoprene identified in the volatolome of endophytic fungi as a promising phosphine alternative	Presenter: A/Prof Paul Cunningham Topic: Continuing development of a new attract and kill trap for surveillance and control of female Queensland fruit fly	Presenter: Dr Ceri Pearce Topic: How Queensland is fighting the battle against <i>Fusarium oxysporum</i> f. sp. <i>cubense</i>

<p>Presenter: Dr Lawrence Kawchuk</p> <p>Topic: Evolution of <i>Phytophthora infestans</i> and disease prevention strategies</p>	<p>Presenter: Dr Monica Kehoe</p> <p>Topic: Next generation sequencing of resistance breaking <i>Tomato spotted wilt virus</i> from WA and QLD</p>	<p>Presenter: Dr Matevz Papp-Rupar</p> <p>Topic: Control of <i>Botrytis cinerea</i> in industrial horticulture by pulsed UV light induced plant defences</p>	<p>Presenter: Prof Jon West</p> <p>Topic: Comparison of rooftop and field-based air samplers for early detection and population monitoring of plant pathogens</p>	<p>Presenter: Dr Andrew Chen</p> <p>Topic: Genetic dissection of Foc resistance using <i>Musa acuminata</i> ssp. <i>malaccensis</i></p>
<p>Presenter: Dr Katherine Linsell</p> <p>Topic: Diversity of root lesion nematode populations in Australian cropping regions and implications for PreDicta B</p>	<p>Presenter: Prof Elliot Kitajima</p> <p>Topic: Diversity of Brevipalpus - transmitted plant viruses</p>	<p>Presenter: Dr Falk Kalamorz</p> <p>Topic: Sucrase inhibitors as insecticides against sap-feeding insects</p>	<p>Presenter: Dr Kelly Hill</p> <p>Topic: Development of probes and platforms for the detection and identification of captured fungal spores</p>	<p>Presenter: Dr Charl Mintoff</p> <p>Topic: Varietal screening trial to identify banana varieties highly tolerant or resistant to <i>Fusarium oxysporum</i> f.sp. <i>cubense</i></p>

17:00-17:30 Closing Ceremony - Poster and Student Talk Awards

Room: Plaza Auditorium

**Program correct at time of printing and subject to change without notice.*