

## Final Program

### Tuesday 29<sup>th</sup> October

0830 - 1715	Registration Open	
0930 - 1000	Morning Tea	
1000 - 1200	<b>Session 1</b> Chair: Andrew Geering, with co-chair: Bao Ton	Sponsor: Department of Agriculture and Fisheries
1000 - 1015	<b>Fiona Filardo:</b> Opening. Acknowledgement to country	
1015 - 1030	<b>Paul Campbell:</b> Tomato spotted wilt virus resistance breaking strains in Australia	
1030 - 1045	<b>Satomi Hayashi:</b> Exploring the source of TYLCV resistance in <i>Nicotiana benthamiana</i> : a potential novel source of resistance for combatting a major disease in the field	
1045 - 1100	<b>Solomon Maina:</b> Pea seed-borne mosaic virus genomes, reveals distinct lentil strain phylogroup; Biosecurity implications?	
1100 - 1200	<b>R.E.F Matthews Lecture:</b> <b>Edward Holmes:</b> Redefining virus ecology and evolution using metagenomics	
1200 - 1300	Lunch	Sponsor: Destination Gold Coast
1300 - 1455	<b>Session 2 - Biosecurity &amp; emerging viruses 1</b> Chair: Kathy Crew, with co-chair: Eyal Zeira	Sponsor: Department of Agriculture of Forestry and Fisheries
1300 - 1330	<b>Andrew Geering:</b> The untold history of banana bunchy top disease	
1330 - 1345	<b>Mignon de Jager:</b> Is phytoplasma titre correlated with symptom development in Banana Wilt Associated Phytoplasma disease in Papua New Guinea?	
1345 - 1400	<b>Grant Chambers:</b> Updating diagnostics for graft-transmissible citrus pathogens	
1400 - 1415	<b>Joanne Mackie:</b> <i>Comovirus viciae</i> genomes generated from historical isolates: Step 1 in designing new molecular diagnostics	
1415 - 1430	<b>Murray Sharman:</b> Johnsongrass mosaic virus: resistance of maize in Australian and implications for preparedness for maize lethal necrosis	
1430 - 1445	<b>Ruvini Lelwala:</b> Early detection of viruses and viroids in imported <i>Citrus</i> germplasm undergoing post-entry quarantine using a small RNA Sequencing (sRNASeq) workflow	
1445 - 1450	Poster Presentation: <b>Marilyn Apa:</b> Distribution of begomovirus in Papua New Guinea (PNG)	
1450 - 1455	Poster Presentation: <b>Madhav Jatin Chandarana:</b> Viruses associated with <i>Agaricus</i> mushrooms in Australia	
1455 - 1525	Afternoon Tea	

1525 – 1715	<b>Session 3 - New tools &amp; technologies 1</b> Chair: Monica Kehoe, with co-chair: Manda Wang	Sponsor: Qiagen
1525 – 1530	QIAGEN 3 min talk	
1530 – 1545	<b>Lia Liewing:</b> The use of high-throughput sequencing for plant virus diagnostics at the New Zealand Ministry for Primary Industries	
1545 – 1615	<b>Felipe de Felippes:</b> MicroRNA-induced gene silencing (MIGS): the tool of choice for silencing viral genes and to confer multi-virus protection in plants	
1615 – 1630	<b>Mark Jackson:</b> Development of mild cross protecting strains of citrus tristeza virus through infectious clone assembly	
1630 – 1645	<b>Tonny Kinene:</b> Tile amplicon sequencing: A comprehensive approach for potato virus Y (PVY) strain detection and characterization	
1645 – 1715	<b>Nicole Thompson:</b> Tomato Brown Rugose Fruit Virus detection and emergency response in South Australia	
1800 – 2000	Welcome Reception	
<b>Wednesday 30<sup>th</sup> October</b>		
0815 – 1730	Registration Open	
0845 – 1035	<b>Session 4 - Plant-virus interactions</b> Chair: Anthony James, with co-chair: Madhav Chandarana	Sponsor: QUT
0845 – 0945	<b>KEYNOTE: Marco Incarbone:</b> Investigating the antiviral defences protecting plant stem cells and germline from infection	
0945 – 1000	<b>Colleen Higgins:</b> Lettuce necrotic yellows virus subgroups elicit different responses in the model host <i>Nicotiana glutinosa</i>	
1000 – 1015	<b>Roshni Rohra:</b> Grapevine leafroll-associated virus 3: molecular evolution, biological variation, and host response	
1015 – 1020	Poster Presentation: <b>Sinethemba Nkosi:</b> CRISPR/Cas9 gene editing towards resistance to the Banana bunchy top virus in banana	
1020 – 1035	<b>Robin MacDiarmid:</b> Talking about a (sexual) revolution in transmission terminology	
1035 – 1100	Morning Tea	
1100 – 1230	<b>Session 5 - Plant virus diversity &amp; detection</b> Chair: David Lovelock, with co-chair: Wei-An (Vivien) Tsai	Sponsor: GRDC
1100 – 1115	<b>Ben Congdon:</b> Clade divination phenotypic data facilitates epidemiological inferences from soybean dwarf virus sequence analysis	
1115 – 1130	<b>Flavia Sarti Bonora:</b> Enhancing DNA and RNA extraction quality for viral detection in horticultural seeds	
1130 – 1145	<b>Eyal Zeira:</b> Diversity of <i>Orthotospovirus impatiensnecromaculae</i> (impatiens necrotic spot virus; INSV) in Australia	
1145 – 1200	<b>Julia Mulabisana:</b> Uncovering the diversity of viruses infecting leafy vegetables in South Africa, and their impact on the fresh weight of the leaves	
1200 – 1215	<b>Ram B. Khadka:</b> Prevalence and incidence of lentil viruses in Nepal	
1215 – 1220	Poster Presentation: <b>Nazanin Nazeri:</b> Investigating the correlation between cucumber mosaic virus (CMV) titre in narrow-leafed lupin tissues and seed transmission rates	
1220 – 1225	Poster presentation: <b>Craig Webster:</b> Direct testing of potato tubers for plant viruses and implementation in a seed potato testing scheme	
1225 – 1230	Poster Presentation: <b>Bao Ton:</b> A system for evaluation of transgenic turnip mosaic virus resistance in <i>Brassica napus</i> plants	
1230 – 1330	Lunch	Sponsor: AGRF
1330 – 1515	<b>Session 6 - Virus-vector interactions</b> Chair: Bec Roach, with co-chair: Jingfeng Liang	Sponsor: Hort Innovation
1330 – 1430	<b>KEYNOTE: Véronique Brault:</b> Polerovirus, host plants and aphid vector: in the secret of a “ménage à trois”	
1430 – 1445	<b>Narelle Nancarrow:</b> Transmission and host range of yellow dwarf virus species recently reported in Australia	
1445 – 1500	<b>Mohammad Aftab:</b> Viruses in canola and aphids in western Victoria	

**\*\* Please note that this is a draft program and subject to change 20241008**

1500 – 1515	<b>Rebecca Gough:</b> Unlocking biocontrol potential: Should we adopt <i>Botrytis cinerea</i> as a mycovirus model system?
1515 – 1545	Afternoon Tea
1545 – 1700	<b>Session 7 - Biosecurity &amp; emerging viruses 2</b> Chair: Solomon Maina, with co-chair: Mignon de Jager
1545 – 1615	<b>Richard Davis &amp; Lynne Jones:</b> How great passion, good will and a love for the tropics creates magic - the part that plant virus and virus-like diseases have played through 35 years of Northern Australia Quarantine Strategy plant health surveys
1615 – 1630	<b>Fiona Filardo:</b> What do lettuce chlorosis virus, yambean mosaic virus and an unknown cogu virus have in common?
1630 – 1645	<b>Shamila Abeynayake:</b> Small RNA-omics and Long-Read Sequencing Integrated Strategy for Characterisation of Novel Plant Viruses
1645 – 1700	<b>Candace Elliott:</b> Preparing for the transition of banana quarantine and diagnostics to Mickleham
1800 – 2100	APVW Dinner Kurrawa Surf Club
<b>Thursday 31<sup>st</sup> October</b>	
0900 – 1500	Registration Open
0930 – 1030	<b>Session 8 - Plant virus ecology, disease epidemiology &amp; management 1</b> Chair: Robin MacDiarmid, with co-chair: Nora Derbal
0930 – 0945	<b>Benjamin Congdon:</b> Field effectiveness of foliar systemic insecticides, a neonicotinoid-based seed treatment, and partial resistance to control turnip yellows virus in canola
0945 – 1000	<b>Wei-An (Vivien) Tsai:</b> Investigating resistance breakdown and alternative management strategies for tomato yellow leaf curl virus
1000 – 1030	<b>APVW Panel: Where to from here?</b>
1030 – 1100	Morning Tea
1100 – 1230	<b>Session 9 – New tools and technologies 2</b> Chair: Flávia Bonora, with co-chair: Narelle Nancarrow
1100 – 1115	<b>Joshua Linn:</b> Digital PCR in plant virus detection: Advancing precision, sensitivity, and efficiency
1115 – 1130	<b>Chris Brosnan:</b> Nanoparticle-mediated delivery of VIGS vectors for protecting citrus from HLB
1130 – 1145	<b>Marie-Emilie Gauthier:</b> ONTViSc: a customisable nextflow pipeline for the identification and detection of viral genomes from Oxford Nanopore sequencing
1145 – 1200	<b>Dawit Kidanemariam:</b> Development of badnavirus infectious clones for research in taro and banana
1200 – 1205	Poster Presentation: <b>Nandita Pathania:</b> Exploring phages as promising biocontrol agents for managing bacterial diseases in plants
1205 – 1220	<b>Rebecca Roach:</b> Genome sequencing of phages infecting plant associated <i>Enterobacter</i> species
1220 – 1235	<b>Fiona Constable &amp; Monica Kehoe:</b> High throughput sequencing, biosecurity and policy in plant virus diagnostics
1235 - 1330	Lunch
1330 – 1500	<b>Session 10 – Plant virus ecology, disease epidemiology &amp; management 2</b> Chair: Nicole Thompson, with co-chair: Roshni Rohra
1330 – 1345	<b>Roger Jones:</b> Seed transmission of turnip mosaic virus to seedlings of <i>Brassica juncea</i>

**\*\* Please note that this is a draft program and subject to change 20241008**

1345 – 1400	<b>Jingfeng Liang:</b> Spray application of dsRNA targeting the CP of ZYMV reduces mechanical and aphid transmitted infection incidence in glasshouse grown <i>Cucurbita pepo</i>
1400 – 1405	Poster presentation: <b>Mianmian Wang:</b> RNA interference against the Green Peach Aphid, <i>Myzus persicae</i> (Hemiptera)
1405 – 1420	<b>Eloise Martin:</b> Managing potyviruses in cucurbit crops by host resistance
1420 – 1440	<b>Closing remarks</b>
1440	Afternoon Tea

## THANK YOU TO OUR SPONSORS

### Gold Partners



**Australian Government**  
**Department of Agriculture,  
 Fisheries and Forestry**



**Queensland  
 Government**

### Silver Partners



### Bronze Partner

