

## Draft Program

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

0830 - 1715	Registration Open
0930 - 1000	Morning Tea
1000 - 1200	Session 1
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
1300 - 1455	Session 2 - Biosecurity & emerging viruses 1
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 - 1700	Session 3 - New tools & technologies 1
1525 - 1530	QIAGEN 3 min talk

1530 – 1545	<b>Roberto Barrero:</b> QIAGEN solutions in plant virology, from dedicated plant extraction kits to dPCR and NGS solutions
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
1630 – 1645	<b>Mark Jackson:</b> An infectious clone assembly approach to rapidly develop mild cross protecting strains of citrus tristeza virus
1645 – 1700	<b>Tonny Kinene:</b> Tile Amplicon Sequencing: A Comprehensive Approach for Potato Virus Y (PVY) Strain Detection and Characterization
1800 – 2000	Welcome BBQ
<b>Wednesday 30<sup>th</sup> October</b>	
0830 – 1730	Registration Open
0900 – 1035	Session 4 - Plant-virus interactions
0900 – 1000	<b>KEYNOTE: Marco Incarbone:</b> Investigating the antiviral defences protecting plant stem cells and germline from infection
1000 – 1015	<b>Colleen Higgins:</b> Lettuce necrotic yellows virus subgroups elicit different responses in the model host <i>Nicotiana glutinosa</i>
1015 – 1030	<b>Roshni Rohra:</b> Grapevine leafroll-associated virus 3: molecular evolution, biological variation, and host response
1030 – 1035	Poster Presentation: <b>Sinethemba Nkosi:</b> CRISPR/Cas9 gene editing towards resistance to the Banana bunchy top virus in banana
1035 – 1100	Morning Tea
1100 – 1230	Session 5 - Plant virus diversity & detection
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>Orthospovirus 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
1330 – 1515	Session 6 - Virus-vector interactions
1330 – 1430	<b>KEYNOTE: Veronique 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
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 – 1715	Session 7 - Biosecurity & emerging viruses 2
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

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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
1700 – 1715	<b>Mohammad Ansar:</b> Adaptation of mono and bipartite Begomovirus species in cucurbit crops: an emerging concern of Northern India
1800 – 2100	APVW Dinner Kurrawa Surf Club
<b>Thursday 31<sup>st</sup> October</b>	
0830 – 1500	Registration Open
0930 – 1030	Session 8 - Plant virus ecology, disease epidemiology & management 1
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	APVW Panel: Where to from here?
1030 – 1100	Morning Tea
1100 – 1230	Session 9 – New tools and technologies 2
1100 – 1115	<b>QIAGEN product manager:</b> Digital PCRT technology and its relevance to the field
1115 – 1130	<b>Chris Brosnan:</b> TBC
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
1230 - 1330	Lunch
1330 – 1500	Session 10 – Plant virus ecology, disease epidemiology & management 2
1330 – 1345	<b>Roger Jones:</b> Seed transmission of turnip mosaic virus to seedlings of <i>Brassica juncea</i>
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

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