

Plant Biosecurity Research Symposium Program

11-12 May 2022

Partnerships for greater research impact



PLANT BIOSECURITY
RESEARCH INITIATIVE

Day 1, 11 May 2022

Hickinbotham Hall, The National Wine Centre

TIME	SESSION AND TOPIC	PRESENTER
8:30	Registration and check-in	
9:00	Introduction	Dr Jo Luck, Program Director, PBRI
9:05	Opening and welcome	Andrew Tongue, Deputy Secretary DAWE
9:15	Welcome to Country	Wirltu Yarlur, University of Adelaide
9:25	Opening Performance	Loren Ryan
SESSION 1 - Preparedness		Chair: Dr Gabrielle Vivian-Smith, DAWE
9:30	KEYNOTE: Biosecurity insights from the vineyard	Ben Harris, Viticulture Manager, Australia & New Zealand Treasury Estate, Wynns Coonawarra
10:00	Biological invasions in forestry	Dr Helen Nahrung, University of Sunshine Coast, Forest Industries Research Centre
10:10	Vegetable leaf miner incursion	Dr John Duff, DAF
10:20	Fall armyworm continuity plan (Grains) and contingency plans	Stuart Kearns, PHA
10:30	Fall armyworm - lessons learnt	Sharna Holman, DAF Cotton Info via video
10:40	Questions	Moderator: Dr Greg Chandler, Hort Innovation
10:50 – 11:10	Morning tea	
11:10	Native insect vectors of Xylella	Dr Piotr Trebicki, Ag Victoria
11:20	<i>Xylella fastidiosa</i> and its vectors – potential control and management options for a prepared Australia	Dr Gavin Hunter, CSIRO Health and Biosecurity
11:30	PEQ screening at the border	Dr Julie Pattemore, DAWE
11:40	Questions	Moderator: Dr Greg Chandler, Hort Innovation
SESSION 2 - Diagnostics		Chair: Lucinda Staley, AgriFutures
11:50	Development of rapid infield diagnostics for Xylella	Dr Rachel Mann, Ag Victoria
12:00	American Foulbrood (AFB) sensor development for honey bees	Dr Julia Grassl, CRC for Honey bee Products, UWA via video
12:10	New diagnostics for exotic and endemic threats	Dr Nicole Thompson, SRA
12:20	Questions	Moderator: Dr Greg Chandler, Hort Innovation
12:25	Biosecurity diagnostics for the grains industry	Dr Will Cuddy, NSW DPI
12:35	Rapid diagnostics beetle and fungal for forests	Dr Conrad Trollip, Ag Victoria
12:45	DNA-based gut contents analysis for investigating insect herbivory and movement	Dean Brooks, CSIRO Health and Biosecurity

12:55	Questions	Moderator: Greg Chandler, Hort Innovation
1:00 – 2:00	Lunch	
SESSION 3 - Surveillance		Chair: Jodie Mason, FWPA
2:00	Use of hyperspectral analysis to detect plant pathogens	Prof. Pablo Zarco-Tejada, University of Melbourne
2:10	Citrus biosecurity surveillance	Dr Jess Lye, Citrus Australia
2:20	Peri-urban surveillance	Zarmeen Hassan, AusVeg
2:30	Questions	Moderator: Dr Sharyn Taylor, PHA
2:40	Cotton surveillance - viruses	Dr Murray Sharman, DAF
2:50	Forest surveillance - connecting different surveillance types	Francisco Tovar, PHA
3:00	ImapPESTS case studies of sentinels	Dr Rohan Kimber, SARDI
3:10	Northern Australia Biosecurity Strategy: a collaborative approach	Dr Darren Peck, DAWE via video
3:20	Questions	Moderator: Dr Sharyn Taylor, PHA
3:30 -3:50	Afternoon tea	
SESSION 4 - Sustainable Pest, disease and weed management		Chair: Dr Ken Young, GRDC
3:50	Novel pest management grains	Prof. Ary Hoffmann, University of Melbourne, AGPIP via video
4:00	Sustainable management of forest pests	Dr Andy Howe, University of Sunshine Coast, Forest Industries Research Centre
4:10	Insecticide resistance monitoring in cotton	Dr Lisa Bird, DPI NSW via video
4:20	Grapevine trunk disease management	Dr Mark Sosnowski, SARDI
4:30	Questions	Moderator: Dr Sharyn Taylor, PHA
4:40	New biocontrol solution for sustainable management of weed impacts to agricultural profitability	Dr Alex Ball, Rural Analytics via video
4:50	Weed vision and management	Dr Mostafa Rahimiazghadi, James Cook University via video
5:00	Biocontrol of fruit flies and Spotted Wing Drosophila surveillance	Assoc. Prof Paul Cunningham, Ag Victoria
5:10	Questions	Moderator: Dr Sharyn Taylor, PHA
5:15	Close Day 1	
6:45	Wine and Dine including dinner address: <i>Partnerships for Research Impact</i> - Dr Beth Woods (ACIAR)	

Day 2, 12 May 2022

Hickinbotham Hall, The National Wine Centre

TIME	SESSION AND TOPIC	PRESENTER
8:30	Tea and coffee	
SESSION 5 - Biosecurity Partnerships		Chair: Dr Liz Waters, Wine Australia

8:45	Keynote Address - Advances in technology for biosecurity risk detection	Joel Willis, Principal Director - Detection Capability and Emerging Technology, Biosecurity Operations Division, DAWE
9:15	Partnerships panel session - Future collaboration and co-investment opportunities	Dr James Buwalda, Chair B3 NZ, Dr Irene Kernot Research Program Manager, ACIAR, Baldissera Giovanni, Network Coordinator, Euphresco, Dr Anne Walters, Deputy Chair Plant Health Committee Moderator: Craig Elliott, Wine Australia
10:00-10:30	Morning tea	
SESSION 6 - Trans-Tasman Research		Chair: Dr David Teulon, B3
10:30	New aerodynamic design principles for improved brown marmorated stink bug traps	Rachel Horner (B3/PFR)
10:40	Remote Sensing Methods for Biosecurity Surveillance, Response and Eradication : NZ Maize crop as a case study	Dr Federico Tomasetto (B3/AGR)
10:50	Elevating and recognising knowledge of indigenous peoples to improve biosecurity in the Pacific	Alby Marsh (B3)
11:00	Questions	Moderator: Craig Elliott, Wine Australia
11:05	Novel volatile sensors for biosecurity	Dr Melissa Jordan (B3/PFR)
11:15	Bees as Biosecurity Biomonitor: exotic plant detection and identification to monitor plant invasions	Dr Andrew Cridge (B3/Scion)
11:25	Sentinel plants from concept to application: the value in the context of biosecurity for Aotearoa-New Zealand	Dr Mark McNeil (B3/AGR)
11:35	Questions	Moderator: Craig Elliott, Wine Australia
SESSION 7 - Biosecurity and industry resilience		Chair: Sarah Corcoran, Plant Health Australia
11:40	The grapevine propagation supply chain - challenges and opportunities	Nick Dry, Viticulture Consultant, Foundation Viticulture
11:50	Biosecurity response and social licence	Dr Angus Carnegie, NSW DPI
12:00	Grains biosecurity- an industry perspective	Barry Large, Chair, Grains Producers Australia
12:10	Questions	Moderator: Craig Elliott, Wine Australia
12:20-1:10	Lunch	
1:10	Blue green aphid resistance in Lucerne	Katrina Copping Executive Officer, Lucerne Australia
1:20	Incentivising biosecurity for growers	Assoc. Prof Susie Hester, Deputy Director CEBRA
1:30	Valuing biosecurity along the supply chain	John McDonald, GreenLife Australia via video
1:40	Questions	Moderator: Craig Elliott, Wine Australia
SESSION 8 - Capability building		Chair: Dr Alison Anderson, Hort Innovation
1:50	Pacific Engagement - Biosecurity	Dr Sophie Peterson, DAWE
2:00	Building capability in northern Australia: supporting indigenous forest communities	Dr Mila Bristow Plant Health Australia and Dr Geoff Pegg Department of Agriculture and Fisheries, Queensland

2:10	Financial threat posed by BMSB to the Australian wine industry	Hamish McKirdy, PhD Student Murdoch University
2:20	Cereal plant pathology, an integrated approach to industry surveillance	Dr Steven Simpfendorfer, DPI NSW via video
2:30	Plant Health Clinics in the Pacific Islands	Prof. Mike Furlong, University of Queensland
2:40	Biosecurity Warrior schools' program	Dr Jordan Bailey, DPI NSW via video
2:50	Questions	Moderator: Dr Greg Chandler, Hort Innovation
3:00	Linked machine learning classifiers for species and strain identification using fungal ribosomal DNA datasets	Tavish Eenjes, The Australian National University
3:05	Exogenous RNAi inhibits infection physiology of rust fungi to reduce symptoms <i>in planta</i>	Rebecca Degnan, University of Queensland
3:10	Metagenomic sequencing used for national surveillance of phytoplasmas in vegetables	Bianca Rodrigues Jardim, La Trobe University
3:15	Identifying virulence factors in wheat stripe rust <i>Puccinia striiformis</i> f.sp. <i>tritici</i> .	Salome Wilson, The Australian National University
3:20	Questions	Moderator: Dr Greg Chandler, Hort Innovation
3:30	<i>Symposium wrap-up</i>	<i>Dr Jo Luck, PBRI</i>
3:40	<i>Close</i>	

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