



# PROGRAM



### Annual Diagnostics Workshop (ADW) 2024

DAY ONE   Tuesday, 19 March 2024   Bay Room						
Workshops 1, 2	and 3   9.00am - 11.00am		Refer to back page for workshop details			
Registration an	Registration and morning tea   11.00am - 11.30am					
Session 1: Updates in the Network			Chair: Cathy Todd   Co-chair: Andrew Manners			
ТІМЕ	PRESENTER	ORGANISATION	ТОРІС			
11.30am	Rachel Mann	Plant Health Australia (PHA)	Welcome and introductions			
11.40am	Bianca Rodrigues Jardim	РНА	National Plant Biosecurity Diagnostic Network (NPBDN) professional development updates			
11.50am	Juliane Henderson	Queensland Department of Agriculture and Fisheries (QDAF)	Subcommittee on Plant Health Diagnostics (SPHD) update			
12.05pm	Anna Genge	Department of Agriculture, Fisheries and Forestry (DAFF)	DAFF update			
12.20pm	ADW 2024 group photo	ADW 2024 group photo				
Lunch   12.35pr	n - 1.35pm					
Session 2: Natio	Session 2: National Diagnostic Protocols (NDPs), collections, and proficiency testing Chair: Alison Dann   Co-chair: Toni Chapman					
1.35pm	Andrew Turley	CSIRO	Invited speaker: A national approach to biological collections			
2.00pm	Harsh Garg	РНА	National Diagnostic Protocol (NDP) updates			
2.10pm	Melinda Moir	Department of Primary Industries and Regional Development WA (DPIRD WA)	NDP: Meadow Spittlebug ( <i>Philaenus spumarius</i> L.)			
2.25pm	Nga Tran	University of Queensland (UQ)	Residential report: Avocado scab and laurel wilt NDP			
2.35pm	Sophia Callaghan	NSW Department of Primary Industries (NSW DPI)	Residential report: Forestry pests and Phytophthora pluvialis NDP			
2.45pm	Conrad Trollip	NSW DPI	Residential report: AUS-NZ forestry and Ceratocystis NDP			
2.55pm	Dominie Wright	DPIRD WA	National Plant Health Proficiency Testing Program (NPHPTP) update			

Afternoon tea | 3.10pm - 3.30pm





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Session 3: Challenging to diagnose pests and pathogens		thogens	Chair: Gavin Hunter   Co-chair: Sharon Van Brunschot
TIME	PRESENTER	ORGANISATION	ТОРІС
3.30pm	Andrew Geering	Queensland Alliance for Agriculture and Food Innovation (QAAFI), UQ	Invited speaker: A review of Begomoviruses and whiteflies in the Top 42
3.55pm	Lilia Carvalhais   Kathy Crew	UQ   QDAF	Residential report: Banana wilt associated phytoplasmas in Papua New Guinea
4.05pm	Craig Webster	DPIRD WA	Diversity of phytoplasma diseases of cultivated and wild plants in Western Australia
4.20pm	Rebecca Roach	QDAF	Residential report: Validation of Crown Gall pathogen diagnostics
4.30pm	Paul Campbell	QDAF	The great leap forward for vegetable industry biosecurity diagnostics
4.40pm	Gavin Hunter	CSIRO	Close of day one
ADW 2024 social event   Canapés served for 2 hours. Drinks available at cash bar   Milling Room   5.00pm - 7.00pm			

#### DAY TWO | Wednesday, 20 March 2024 | Bay Room

Arrival tea and coffee | 8.30am - 9.00am

Session 4: Vectors of unculturable plant pathogens		ns	Chair: Toni Chapman   Co-chair: Sam Cain Axelsen	
9.00am	Cait Selleck	Agriculture Victoria (AgVic)	Invited speaker: The distribution of froghoppers in Australia - potential vectors of Xylella fastidiosa	
9.20am	Flavia Bonara	QDAF	Detection of viruses in vector insects as a potential surveillance tool	
9.35am	Matthew Power	DPIRD WA	Development of a species-specific qPCR assay for the detection of Polyphagous shot-hole borer, Euwallacea fornicatus	
9.50am	Daniel Huston	CSIRO	Virus-vector nematodes: what we know, what we don't, and what we need to	
10.05am	Reannon Smith	AgVic	The molecular approach to unculturables from reference collections	
10.20am	Poll EV	РНА	Poll EV	
Morning tea   10.30am - 11.00am				





## Annual Diagnostics Workshop (ADW) 2024

Session 5: Met	ession 5: Methods for improved detection and identification Chair: Sharon Van Brunschot   Co-chair: Alison Dann				
ТІМЕ	PRESENTER	ORGANISATION	ТОРІС		
11.00am	Jane Ray	Department of Industry, Tourism and Trade, NT (DITT NT)	Resolving the identification of Australian Ralstonia strains using molecular techniques		
11.10am	Asha Thomas	Ministry for Primary Industries (MPI), Aotearoa/New Zealand	Residential report: Diagnostics capability building from SARDI's real world surveillance and eradication programs		
11.20am	Jeremy Brawner	University of Florida	Developing a universal pathogen identification tool		
11.35am	Mignon de Jager	QAAFI, UQ	Evaluation of published and novel nested PCR assays for reliable detection of banana wilt associated phytoplasmas		
11.50am	Merje Toome-Heller	MPI, Aotearoa/New Zealand	Improved diagnostic tool for pine gall rust detection		
12.10pm	Francesco Martoni   Reannon Smith Elizabeth Fowler	AgVic   AgVic   QDAF	Panel session: Non-destructive nucleic acid extraction methods		
Lunch   1.00pm	n - 2.00pm				
Session 6: Innovative tools for detection and identification Chair: Andrew M			Chair: Andrew Manners   Co-chair: Cathy Todd		
2.00pm	Salome Wilson	Australian National University (ANU)	Advancing wheat rust fungi diagnostic power by rapid validation of a virulence genes detected by the wheat immune system		
2.15pm	Thomas Farrall	University of Sunshine Coast	Development of an enrichment method for third-generation sequencing: identifying viruses in planta		
2.30pm	Shamila Abeynayake	Plant Innovation Centre, DAFF	Small RNA-omics and rapid genome sequencing for characterisation of novel plant viruses		
2.000	5 5	······································	Sinati Max-onnes and rapid genome sequencing for characterisation of novel plant and ses		
2.45pm	Natasha Brohier	AgVic	Targeted high throughput sequencing for detection of phytopathogenic bacteria of biosecurity significance		
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2.45pm 3.00pm	Natasha Brohier   Gus McFarlane	AgVic NSW DPI	Targeted high throughput sequencing for detection of phytopathogenic bacteria of biosecurity significance   Image: Comparison of the sequencing for detection of phytopathogenic bacteria of biosecurity significance     Residential report: CRISPR-based diagnostics techniques   Image: Comparison of the sequence o		





### WORKSHOPS

DAY ONE   Tuesday, 19 March 2024					
WORKSHOP	ТІМЕ	ТОРІС	MAX NUMBER		
Workshop 1 (Bay Room)	9.00am - 11.00am	The fundamentals of the Australian Plant Pest Database (APPD)	30 in-person		
Workshop 2 (River Room)	9.00am - 11.00am	National Diagnostic Protocol (NDP) development and review	40 in-person		
Workshop 3 (Horizons Room)	9.00am - 11.00am	Rapid molecular assays to detect Honeybee mites	20 in-person, hybrid		



The National Plant Biosecurity Diagnostic Network (NPBDN) is the nationally integrated network for plant diagnosticians in Australia. Members of the network support their profession by helping to contribute to a constantly evolving plant diagnostic system. Their activities enable the efficient and effective diagnosis of plant pests by Australian plant diagnosticians.

The network was founded in 2011. The network was formally established by a wide range of stakeholders involved in managing Australia's plant biosecurity system. Plant diagnosticians involved with this network are located in every state and territory. Diagnostic services are provided from cities and regional centres in most of Australia's major agricultural production areas.

The National Plant Biosecurity Diagnostic Professional Development and Protocols Project is coordinated and delivered by Plant Health Australia and is funded by the Department of Agriculture, Fisheries and Forestry. The objectives of the Project are to enhance and strengthen Australia's diagnostic capacity and capability to identify priority plant pests that impact on plant industries, environment and the community.

#### Visit npbdn.net.au

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