



Australasian Soilborne Diseases Symposium 2024

Peppers Salt Resort & Spa, Kingscliff NSW
26th - 30th August, 2024



ASDS-APPS.com

Program

From the Ground Up: Building resilience through adaptive research

Monday 26 August		
0800-1630	Field trip: Northern Rivers and local soilborne disease issues	Sponsor: Hort Innovation
Tuesday 27 August		
0800-1800	Registration Open	
0830-1530	Workshop 1 - Nematology Workshop	Sponsor: Hort Innovation
1530-1600	Afternoon Tea	
1600-1800	Session 1 – Opening Plenary– Soil Biology & Health Session Chairs: Sophia Callaghan, Sean Bithell	Session Sponsor: Western Sydney University
1600-1615	Opening and Acknowledgement to country	
1615-1700	KEYNOTE: Jonathan Plett, Western Sydney University Balancing Act: Understanding Plant Immune Responses to Soil Microbes for Enhanced Symbiosis and Disease Resistance	
1700-1715	Sarah van Amsterdam - <i>Fusarium</i> spp. as plant pathogens in Aotearoa New Zealand pastures*	
1715-1730	Paul Dennis - A roadmap to enhance soil ecosystem services that support plant growth and defence	
1730-1745	Reza Ghaderi - Soil faunal community transfers pathogen suppression from different horizons of a natural soil to an agricultural soil	
1745-1800	Helen Hayden - Strategic tillage impacts on soil fauna and microorganisms using different tillage methods and rotation crops	
1800-2000	Welcome Networking Function	
Wednesday 28 August		
0800-1700	Registration	
0900-1030	Session 2 – Soilborne Disease Management (Part 1) Session Chairs: Jay Anderson	
0900-0945	KEYNOTE: Amy Charkowski, Colorado State University Management of soilborne disease in potato	

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* Student Presentation

0945-1000	Seona Casonato - <i>Pachymetra chaunorhiza</i> : germination of oospores without the host
1000-1015	Phillip Wharton - Effective in-season management techniques for the control of <i>Colletotrichum coccodes</i> in potatoes
1015-1030	Supawadee Phetkhajone - Spray-induced gene silencing as a promising prospect for root and stem rot management of <i>Phytophthora palmivora</i> *
1030-1100	Morning Tea
1100-1230	Session 3 – People and Soil/New Technology Session Chairs: Helen Hayden
1100-1115	Camilla Humphries - Research to Practice – Integrated soil-borne disease management in vegetable crops
1115-1130	Ahmed Saad - Effect of mechanical soil amelioration and amendments on <i>Rhizoctonia solani</i> AG8 inoculum in glasshouse and field experiments
1130-1145	Daniel Huberli - Managing <i>Rhizoctonia solani</i> AG8 on farm – Grower interactive research in Western Australia and South Australia
1145-1200	Toni Petronaitis - Navigating the current and future impacts of Artificial Intelligence on soil-borne disease research in Australia
1200-1215	Anthony Pattison - Fusarium wilt of bananas: A symptom of the system
1215-1230	Blake Gontar - Associations between pathogen and rhizobia levels in soil pre-sowing, and root health in faba bean and lupin – a case study on Kangaroo Island
1230-1330	Lunch
1330-1500	Session 4 – Nematodes Session Chairs: Uffe Nielsen
1330-1400	KEYNOTE: Johan Desaeager, University of Florida Nematode management in an unpredictable world – one-size-fits-none
1400-1415	Graham Stirling - Organic amendments with a high C/N ratio. Do they enhance nematode suppressive services and reduce losses caused by root-knot nematode on sweet potato?
1415-1430	Manjula Kularathna - Impact of plant-parasitic nematodes on maize production in New Zealand
1430-1445	Dylan Corner - Identification of plant-parasitic nematodes in the Champasak region of Lao PDR
1445-1500	Lee Aalders - Three contrasting species of <i>Meloidogyne</i> nematodes in Aotearoa New Zealand (AoNZ) illustrate the potential to identify biosecurity risk from invasive <i>Meloidogyne</i> species
1500-1530	Afternoon Tea
1530-1700	Session 5 – Soil Biology & Biodiversity/Breeding Session Chairs: David Guest
1530-1545	Jane Ray - Australia's native and introduced lineages of <i>the Ralstonia solanacearum</i> species complex
1545-1600	Len Tesoriero - Investigating Monterey Decline in Almonds: An Australian Perspective
1600-1615	Femi Akinsanmi - Oomycetes threatening macadamia, an Australian native crop and a glimmer of hope for disease management
1615-1630	Chloe Findlay - Fusarium root rot of lentil and faba bean in Victoria and South Australia
1630-1645	Cassandra Percy - "Impact of common root rot in Queensland winter cereals"
1645-1700	Rebecca Lyons - The likelihood of <i>Fusarium oxysporum</i> f. sp. <i>cubense</i> colonising soil is associated with microbial biomass and composition
1700-1715	Anna-Belle Clarke - The international core microbiome of banana (<i>Musa</i> spp.)*
1715-1830	POSTER SESSION
	Free Evening

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Thursday 29 August

0830-1700	Registration
0900-1030	Session 6 – Diagnostics & Surveillance Session Chairs: Cherie Gambley
0900-0945	KEYNOTE: Michelle Cleary, Swedish University of Agricultural Sciences Battling the Decline: Saving Europe's Ash Trees
0945-1000	Avalon Yennefer - Diagnostics for root-knot nematode virulence variation using a multi-omics approach*
1000-1015	Ronika Thapa - Pink rot of potato – studies into the causal agent <i>Phytophthora erythroseptica</i> and its alternative host species*
1015-1030	Dharushana Thanabalasingam - Importance of soil-borne diseases in faba bean and lentil crops in Victoria
1030-1100	Morning Tea
1100-1230	Session 7 Soilborne Disease Management (Part 2) Session Chairs: Len Tesoriero
1100-1115	Cherie Gambley - What's killing my melons?
1115-1130	Harry Cosgrove - Living with Fusarium: can wood waste amendments improve soil health in banana production systems?
1130-1145	Donovan Coles - Development of novel strategies to manage broccolini clubroot disease
1145-1200	Leny Jane Pame - Double-stranded RNA-based biopesticide for sustainable control against <i>Phytophthora cinnamomi</i> **
1200-1215	Duy Quang Nguyen - Soil-borne pests and diseases affecting black pepper plantations in Viet Nam; Bio-inoculants and agroecological practices to control the problem*
1215-1230	Thi Thanh Hien Nguyen - Root exudates and disease management strategies for powdery scab in potatoes*
1230-1330	Lunch
1330 -1500	Session 8 – New Finds Session Chairs: Jane Ray
1330-1415	KEYNOTE: Treena Burgess, Murdoch University Adaptive approaches for combatting Phytophthora pathogens
1415-1430	Sean Bithell - Phytophthora root rot of lupin in Australia
1430-1445	Laetitia Hermann - First report of <i>Fusarium</i> species causing root rot of the medicinal plant, Chinese Foxglove (<i>Rehmannia glutinosa</i>) in Northern Vietnam
1445-1500	Onyemaechi Obiazikwor - Biological products increased tomato crop performance and stimulated positive changes to the rhizosphere microbiomes and nematode community*
1500-1530	Afternoon Tea
1530-1700	Session 9 – Soil biology, Diversity & Epidemiology Session Chairs: Toni Petronaitis
1530-1545	Katherine Linsell - Temporal Shifts in Soil-Borne Pathogens: A Two-Decade Analysis of Climatic and Farming System Influences in Southern and Western Australian Broadacre Cropping
1545-1600	Brittany Oswald - The diversity of oomycetes causing disease in Australian almond orchards*
1600-1615	Jonathan Amponsah - Modelling pink rot and powdery scab of potato; how climate change interphases biometeorology and soil ecology to impact disease incidence and severity
1615-1630	Gupta Vadakattu - Epidemiology of rhizoctonia root rot disease in cereals is spatially variable at within-paddock scale
1630-1645	Lester Burgess - Diseases caused by soil-borne plant pathogens in Champasak Province, Laos, IDM strategies and the role of rice hulls

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1645-1700	Symposium Close – Sophia Callaghan and Sean Bithell
1830-2100	Symposium Dinner -Salt Bar
Friday 30 August	
0800-1530	Phytophthora Workshop (Offsite) option for overnight stay and finish at 1200 Saturday 31 August. See website for full schedule

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