Plant–Microbe Interactions Satellite Meeting Programme

Saturday 31 August – Sunday 1 September, 2024

Rydges Hotel, Queenstown, New Zealand

Friday 30 August

Time	Details	Location
From 8.00pm	**Invited Speaker Dinner**	The Grille by Eichardts

Saturday 31 August

Time	Details	Location
	Plant–Fungus Interactions I **Chaired by Mariana Tarallo and Rosie Bradshaw (Massey University)**	
9.00am-9.10am	**Carl Mesarich** Massey University *Meeting Welcome*	Clancy's room, L5
9.10am-9.40am	**Andrea Sánchez-Vallet (PM1)** Universidad Politécnica de Madrid *A fungal pathogen interferes with the cell wall to colonize wheat*	
9.40am-10.10am	**Simon Williams (PM2)** The Australian National University *Catalysts of deception: unveiling fungal Nudix effector protein function in plant-fungal interactions*	
10.10am-10.30am	**Jovarn Sullivan (PM3)** University of Canterbury *Decoding the unknown: unveiling the role of an effector protein during myrtle rust infection by* Austropuccinia psidii	
10.30am-11.00am	**Morning Tea**	Reds Bar, L6
	Plant Symbiont/Microbiota Interactions **Chaired by Reuben Panting and Jo Bowen (The New Zealand Institute for Plant and Food Research)**	
11.00am-11.30am	**Hanareia Ehau-Taumaunu (PM4)** The New Zealand Institute for Plant and Food Research *Developing a disease-suppressive microbial community against a bacterial pathogen*	Clancy's room, L5
11.30am-11.50am	**Richard Johnson (PM5)** AgResearch *Dissection of the epoxyjanthitrem pathway in* Epichloë *sp. LpTG-3 strain AR37 by CRISPR gene editing*	
11.50am-12.10pm	**Kara Pendavingh (PM6)** Massey University *Interactions of the apple pathogen* Venturia inaequalis *with microorganisms from the apple phyllosphere*	
12.10pm-12.30pm	**Artemio Mendoza-Mendoza (PM7)** Lincoln University *The role of the transcription factor TRSYMB1 in secondary metabolism and symbiosis in* Trichoderma	

12.30pm-1.30pm	**Lunch**	Bazaar Restaurant and Reds Bar, L6
<u>Plant Immunity I</u> Chaired by Brogan McGreal (The New Zealand Institute for Plant and Food Research)		
1.30pm-2.00pm	**Matthieu Joosten (PM8)** Wageningen University and Research *Immune signalling by cell surface-localised receptor-like proteins (RLPs) reveals its secrets*	Clancy's room, L5
2.00pm-2.20pm	**Xiaoxiao Zhang (PM9)** The Australian National University *Engineering NLR immune receptors for disease resistance in cereal crops*	
2.20pm-2.40pm	**Claudia Meisrimler (PM10)** The University of Canterbury *Activation and translocation of plant membrane-associated NAC transcription factors: key in stress response and target of pathogen effectors*	
2.40pm-3.00pm	**Peter Solomon (PM11)** The Australian National University *Are we closer to understanding the function of the PR1 protein in plant immunity?*	
3.00pm-3.30pm	**Afternoon Tea and Coffee Break**	L5 Lobby
<u>Plant–Oomycete Interactions I / Plant–Fungus Interactions I</u> Chaired by Claudia Meisrimler (University of Canterbury)		
3.30pm-4.00pm	**Paul Birch (PM12)** James Hutton Institute / University of Dundee *Delivery of RXLR effectors from haustoria into plant cells*	Clancy's room, L5
4.00pm-4.20pm	**Sophie Eccersall (PM13)** The University of Canterbury *The role of* Phytophthora pluvialis *RxLR effectors during early infection of* Pinus radiata	
4.20pm-4.40pm	**Gabriela Ricardo (PM14)** Massey University *Disruption of the infection process of Sclerotiniaceous fungi* Botrytis cinerea *and* Ciborinia camelliae *using common plant secondary metabolites*	
4.40pm-5.00pm	**Jo Bowen (PM15)** The New Zealand Institute for Plant and Food Research *Effector proteins required for virulence of the fungal pathogen* Neonectria ditissima	
from 5.00pm	**Poster Session**	Marquee, L7
5.30pm-7.00pm	**Evening Social Function** *sponsored by 10x Genomics – Millennium Science*	Trade Area, L4

Sunday 1 September		
Time	**Details**	**Location**
<u>Plant–Fungus Interactions III</u> Chaired by Marion Wood (The New Zealand Institute for Plant and Food Research)		
9.00am-9.30am	**Ely Olivera-Garcia (PM16)** Louisiana State University *Dissecting the mechanism of translocation of* Magnaporthe oryzae *effectors into plant cells*	Clancy's room, L5
9.30am-10.00am	**Carl Mesarich (PM17)** Massey University *Sequential breakdown of the* Cf-9 *leaf mould resistance locus in tomato by* Fulvia fulva	
10.00am-10.30am	**Morning Tea**	Trade Area, L4
<u>Plant–Oomycete Interactions II / Plant–Bacterium Interactions</u> Chaired by Sophie Eccersall and Jovarn Sullivan (The University of Canterbury)		
10.30am-11.00am	**Petra Boevink (PM18)** James Hutton Institute Phytophthora *cytoplasmic effectors undergo two independent cleavage events*	Clancy's room, L5
11.00am-11.20am	**Mariana Tarallo (PM19)** Massey University *RXLR40, a broad cell death suppressor of the kauri dieback pathogen* Phytophthora agathidicida*, targets a plant BTB domain-containing protein*	
11.20am-11.40am	**Kar-Chun Tan (PM20)** Curtin University *Saving your smashed avocado toast – biochemical analysis reveals the multi-modal function of the oomyceticide phosphite in an oomycete pathosystem*	
11.40am-12.00pm	**Lauren Hemara (PM21)** The New Zealand Institute for Plant and Food Research / The University of Auckland *Effector knockout competition reveals individually redundant effectors are collectively required for successful virulence*	
12.00pm-1.30pm	**Lunch**	Trade Area, L4
<u>Plant Immunity II / Plant–Fungus Interactions IV</u> Chaired by Jay Jayaraman (The New Zealand Institute for Plant and Food Research)		
1.30pm-2.00pm	**Gitta Coaker (PM22) -** *zoom presenter* University of California, Davis *Unlocking the secrets of tandem kinase proteins: direct binding of a fungal effector sparks plant defence*	Clancy's room, L5
2.00pm-2.30pm	**Lay-Sun Ma (PM23)** Academia Sinica *Smut fungal conserved N-glycosylated effector manipulates plant cell wall dynamics*	
2.30pm-2.40pm	**Comfort Break**	
2.40pm-3.10pm	**Christiaan Schol (PM24)** *sponsored by Abacus dx* Wageningen University and Research	

	Comparative genomics identifies Ecp5 *as the* Avr6 *avirulence effector gene of* Fulvia fulva *corresponding to the recently deployed* Cf-6 *leaf mold resistance locus of tomato*	
3.10pm-3.30pm	**Deny Kumar Shrestha (PM25)** Massey University *Discovering early infection strategies by plant-pathogenic fungi of the Ascomycota phylum*	
3.30pm-4.00pm	**Afternoon Tea and Coffee Break**	Trade Area, L4
<u>Pathogen Genomics / Plant–Fungus Interactions V</u> Chaired by Lauren Hemara (The New Zealand Institute for Plant and Food Research)		
4.00pm-4.30pm	**Thorsten Langner (PM26)** Max Planck Institute for Biology *The role of mini-chromosomes in adaptive evolution of the blast fungus*	Clancy's room, L5
4.30pm-5.00pm	**James Hane (PM27)** Curtin University *Applications of pan-genomics for phenotype-based effector discovery and crop-disease surveillance*	
5.00pm-5.20pm	**Rita Tam (PM28)** The Australian National University *Dikaryotic organisation and regulation of the complex wheat stripe rust fungus genome revealed by a telomere-to-telomere haplotype-phased assembly*	
5.20pm-5.40pm	**Eric Pereira (PM29)** The Australian National University *Identification of candidate avirulence effector genes in the wheat stripe rust fungus*	
5.40pm-6.00pm	**Carl Mesarich** Massey University *Awards and Meeting Close*	
6.00pm-6.30pm	**Free Time**	
QRW Plenary Lecture *sponsored by illumina*		
6.30pm-6.40pm	**Intro to QRW and Hon Judith Collins**	Queenstown & Wakatipu room, live stream Clancy's, L5
6.40pm-7.00pm	**Conference Opening** **Hon Judith Collins** Minister Science Innovation and Technology, NZ Government	Queenstown & Wakatipu room, live stream Clancy's, L5
7.00pm-7.40pm	**QRW Plenary: Prof Jane Harding** University of Auckland *Why planning a research career is futile but fun*	Queenstown & Wakatipu room, live stream Clancy's, L5
7.40pm-8.20pm	**QRW Plenary: Prof Sir Ashley Bloomfield** University of Auckland *How does research inform health policy and practice in New Zealand, and how can we do better?*	Queenstown & Wakatipu room, live stream Clancy's, L5
8.20pm-9.30pm	**Evening Social Function** *sponsored by Bio-Strategy*	Trade Area, L4