

Pathogen Genomics Satellite Meeting Programme

Wednesday 4 September – Thursday 5 September, 2024

Rydges Hotel, Queenstown, New Zealand

Wednesday 4 September

Time	Details	Location
Session 1: Plenary		
Chaired by Jemma Geoghegan (University of Otago), David Winter (ESR) and Leah Smith (University of Otago)		
9.00am-9.10am	Welcome & Launch of the Centre for Pathogen Genomics	Queenstown Room, L5
9.10am-10.00am	Amy Jennison (PG1) Queensland Health <i>Genomics for responding to emerging bacterial public health threats</i>	Queenstown Room, L5
10.00am-10.30am	Morning Tea	Trade Area, L4
Session 2: Pathogen genomics in primary industries		
Chaired by David Winter (ESR)		
10.30am-11.00am	Heather Hendrickson (PG2) University of Canterbury <i>There's a phage for that... Progress towards identifying promising pathogens and their phages in the primary industries</i>	Queenstown Room, L5
11.00am-11.20am	Fiona Constable (PG3) Agriculture Victoria, DEECA <i>A genomics approach to investigate phytoplasma taxonomy and their diversity in Australia</i>	Queenstown Room, L5
11.20am-11.40am	David Waite (PG4) Ministry for Primary Industries <i>Rapid identification and genomic characterisation of Pepino mosaic virus by Oxford Nanopore sequencing, during a New Zealand outbreak</i>	Queenstown Room, L5
11.40am-12.00pm	Emma Voss (PG5) University Of Otago & Livestock Improvement Corporation <i>Comparative Genomics of ST1 Staphylococcus aureus in New Zealand</i>	Queenstown Room, L5
12.00pm-12.30pm	Patrick Biggs (PG6) Massey University <i>The genomics of the New Zealand Mycoplasma bovis outbreak</i>	Queenstown Room, L5
12.30pm-1.30pm	Lunch	Trade Area, L4
Session 3: Genomics for public health and infection control		
Chaired by Jemma Geoghegan (University of Otago)		
1.30pm-2.00pm	David Winter (PG7) The Institute of Environmental Science and Research <i>Genomic data for public health surveillance at ESR</i>	Queenstown Room, L5
2.00pm-2.15pm	Maxim Bloomfield (PG8)	Queenstown Room, L5

	Te Whatu Ora Capital, Coast & Hutt Valley <i>A tale of two (and a half) outbreaks: reducing the impact of hospital-acquired infection via prospective genomic surveillance</i>	
2.15pm-2.45pm	Jesse Martin (PG9) Awanui Labs <i>Implementation and optimisation of the Oxford Nanopore MinION and its clinically utility at Dunedin Hospital</i>	Queenstown Room, L5
2.45pm-3.00pm	Rhys White (PG10) The Institute of Environmental Science and Research <i>Integrating onsite whole-genome sequencing with national surveillance and public data for rapid outbreak identification and management</i>	Queenstown Room, L5
3.00pm-3.30pm	Fiona Callaghan (PG11) Public Health Agency, New Zealand Ministry of Health <i>Pathogen genomics for public health action</i>	Queenstown Room, L5
3.30pm-4.00pm	Afternoon Tea and Coffee Break	Trade Area, L4
Session 4: Pathogen genomics to support clinical outcomes Chaired by Leah Smith (University of Otago)		
3.30pm-4.00pm	David Hayman (PG12) Massey University <i>Challenges and advances in understanding cryptosporidium in New Zealand</i>	Queenstown Room, L5
4.00pm-4.15pm	Brya Matthews (PG13) University of Auckland <i>Identification of Staphylococcus aureus genes that predispose children with osteomyelitis to adverse health outcomes</i>	Queenstown Room, L5
4.15pm-4.30pm	Cecilia Wang (PG14) University of Otago <i>Exploring collateral vulnerabilities in drug-resistant Mycobacterium tuberculosis: A path to novel anti-TB therapies</i>	Queenstown Room, L5
4.30pm-5.00pm	Amy Scott-Thomas (PG15) University of Otago <i>Developing a non-invasive diagnostic test for Legionnaires' disease using cell-free DNA in urine</i>	Queenstown Room, L5
from 5.00pm	Poster Session sponsored by Decode Science	Marquee, L7
5.30pm-7.00pm	Evening Social Function sponsored by illumina	Trade Area, L4
7.30pm-10.00pm	Casual Conference Function <i>Ticket holders only</i>	Winnies Gourmet Pizza Bar, The Mall

Thursday 5 September		
Time	Details	Location
Session 5: Plenary Chaired by Jemma Geoghegan (University of Otago)		
9.00am-9.10am	Centre for Pathogen Genomics: information and discussion	Queenstown Room, L5
9.10am-10.00am	Michelle Wille (PG16) University of Melbourne <i>Insights from genomics of low pathogenicity avian influenza underpin risk assessment and preparedness for high pathogenicity avian influenza in Australia</i>	Queenstown Room, L5
10.00am-10.30am	Morning Tea	Reds Bar, L6
Session 6: Genomic tools for emerging challenges Chaired by Leah Smith (University of Otago)		
10.30am-11.00am	Carl Mesarich (PG17) Massey University <i>AvrRvi4 is a ToxA-like effector of the apple scab fungus, Venturia inaequalis, and is recognized by the Rvi4 NLR resistance protein of apple</i>	Queenstown Room, L5
11.00am-11.20am	Stephanie Waller (PG18) University of Otago <i>Genomics-informed detection and surveillance to prepare Aotearoa for the existential threat of highly pathogenic avian influenza virus</i>	Queenstown Room, L5
11.20am-11.40am	Lauren Hemara (PG19) The New Zealand Institute for Plant and Food Research <i>Genomic biosurveillance of the kiwifruit pathogen Pseudomonas syringae pv. actinidiae reveals adaptation to selective pressures in New Zealand orchards</i>	Queenstown Room, L5
11.40am-12.00pm	Zoe Yang (PG20) The Institute of Environmental Science and Research <i>Nanopore long-read sequencing for monitoring plasmids conferring carbapenem resistance in Aotearoa New Zealand</i>	Queenstown Room, L5
12.00pm-12.30pm	Sakiusa Baleivanualala (PG21) University of Otago <i>Harnessing pathogen genomics to combat antimicrobial resistance in Fiji and the Pacific</i>	Queenstown Room, L5
12.30pm-1.30pm	Lunch	Bazaar Restaurant and Reds Bar, L6
Session 7: Plenary Chaired by David Winter (ESR)		
1.30pm-2.20pm	Stacey Lynch (PG22) CSIRO <i>Genomics across One Health – winners and cautionary tales</i>	Queenstown Room, L5
Session 7 (cont.): Genomic tools for emerging challenges Chaired by David Winter (ESR)		

2.20pm-2.40pm	Rebecca French (PG23) University of Otago <i>Comprehensive infectome analysis of an emerging disease in the critically endangered Kākāpō using total RNA sequencing</i>	Queenstown Room, L5
2.40pm-3.10pm	Syrie Hermans (PG24) <i>sponsored by Mediscope International Limited</i> Auckland University of Technology <i>Soil microbial communities as indicators of soil condition and land management strategies</i>	Queenstown Room, L5
3.15pm-3.25pm	Awards for posters and speakers	Queenstown Room, L5
3.25pm-3.30pm	Closing	Queenstown Room, L5
3.30pm-4.00pm	Afternoon Tea and Coffee Break/End	L5 Lobby