QRW Programme

Webster Centre for Infectious Diseases Satellite Meeting

Monday 29 August – Tuesday 30 August, 2022

Rydges Hotel, Queenstown, New Zealand

Monday 29 August

Time	Details	Location
8.30am – 10:30am	**Mihi Whakatau**	Queenstown Rm
10:30-11:00am	**Morning Tea**	Reds Bar
	<u>Session 1: Science & Policy</u> **Chaired by Matt McNeil and Joanna Hicks.**	
11.00am - 11.30am	**Ayesha Verrall** Minister for COVID-19 Response, Minister for Research, Science and Innovation, Minister for Seniors and Associate Minister of Health	Clancy's Rm
11.30am - 11.50am	**Te Pora Thompson & Nigel French** Co-Directors of Infectious Disease Research Platform	Clancy's Rm
11:50am - 12.20pm	**Juliet Gerrard** Prime Minister's Chief Science Advisor *Kotahitanga: Uniting against Infectious Diseases and antimicrobial resistance*	Clancy's Rm
12:20pm – 12:40pm	**Mike Bunce ID1** *sponsored by illumina* Institute of Environmental Science and Research *Germs & Genomics: Lessons learnt, unexpected connections and future pathways*	Clancy's Rm
12:40pm-1:00pm	**Willy-John Martin ID2** *sponsored by Thermo Fisher Scientific* Ministry of Business, Innovation and Employment *Vision Mātauranga and Research, Science and Innovation.*	Clancy's Rm
1:00pm – 2:00pm	**Lunch**	Trade Area
	<u>Session 2: Host Pathogen Interactions</u> **Chaired by: Nikki Moreland**	
2:00pm – 2:25pm	**Alana Whitcombe ID3** University of Auckland *Multi-antigen analysis of StrepA antibody responses reveals a distinct serological profile in children with acute rheumatic fever and sheds light on disease pathogenesis*	Clancy's Rm
2:25pm -2:50pm	**Keith Ireton ID4** University of Otago *The bacterial pathogens Listeria monocytogenes and Shigella flexneri exploit host exocytosis to promote cell-to-cell spread*	Clancy's Rm
2:50pm -3:10pm	**Joanna MacKichan ID5** *sponsored by New England BioLabs* Victoria University of Wellington *A Neisseria meningitidis iron acquisition protein acts as an adhesin and inhibits host cell wound repair*	Clancy's Rm
3:10pm – 3:30pm	**Jane Allison ID6** *sponsored by Abcam* University of Auckland	Clancy's Rm

	Novel insights into the structure and function of dengue virus NS1 protein	
3:30pm – 4:00pm	**Afternoon Tea**	Trade Area
<u>Session 3: Pathogen Genomics, Surveillance and Disease Control</u> **Supported by Genomics Aotearoa** **Chaired by: Adele Williamson**		
4:00pm – 4:20 pm	**Nigel French ID7** Infectious Disease Research Platform Co-Director Massey University *Application of genomic epidemiology and evolutionary modelling for the control of human, animal and environmental pathogens in Aotearoa New Zealand*	Clancy's Rm
4:20pm – 4:40pm	**James Hadfield ID8** *sponsored by Beckman Coulter Life Sciences* Fred Hutchinson Cancer Research Centre *Tracking SARS-CoV-2 spread and evolution through genomic sequencing*	Clancy's Rm
4.40pm – 6:00 pm	**Poster Session**	L7 Marquee
7:30pm onwards	**Dinner at Winnies**	Winnies Gourmet Pizza Bar

Tuesday 30 August		
Time	**Details**	**Location**
<u>Session 4: Pathogen Genomics, Surveillance and Disease Control</u> Supported by Genomics Aotearoa Chaired by: Mike Bunce		
8:30am-8:50am	**Iain Lamont ID9** University of Otago *Genome evolution drives transcriptomic and phenotypic adaptation in Pseudomonas aeruginosa during 20 years of infection*	Clancy's Rm
8:50am-9:10am	**Una Ren ID10** *sponsored by Mediscope* Institute of Environmental Science and Research *Genomic landscape of meningococcal disease in post-epidemic New Zealand.*	Clancy's Rm
9:10am-9:30am	**Nikki Freed ID11** *sponsored by Thermo Fisher Scientific* University of Auckland *The 'Midnight' Method: Rapid and inexpensive whole-genome sequencing of SARS-CoV-2 using Oxford Nanopore Rapid Barcoding*	Clancy's Rm
9:30am – 9:50am	**Htin Lin Aung ID12** *sponsored by Lab Supply* University of Otago *Genetic diversity and transmission patterns of Mycobacterium tuberculosis in low and high tuberculosis burden countries*	Clancy's Rm
9:50am-10:10am	**Jo Stanton ID13** University of Otago *Point-of-care technology for infectious disease control*	Clancy's Rm
10:10am – 10:30am	**Joanne Chapman ID14** *sponsored by QIAGEN* Institute of Environmental Science and Research *From poop to PCR: wastewater surveillance of SARS-CoV-2 in Aotearoa*	Clancy's Rm
10:30am-11:00am	**Morning Tea**	Trade Area
<u>Session 5: Vaccines & Immunology</u> Chaired by: William Kelton		
11.00am-11:20am	**Gavin Painter ID15** *sponsored by Cytiva* Victoria University of Wellington *Development of mRNA vaccines that induce liver-resident memory $CD8^+$ T cells that protect against hepatotropic infection*	Clancy's Rm
11:20am – 11:40am	**Joanna Kirman ID16** *sponsored by Mediray* University of Otago *Teaching the unteachable: training innate immune cells in the lung using the BCG vaccine*	Clancy's Rm
11:40am – 12:00pm	**Helen Petousis-Harris ID17** University of Auckland *From Covid-19 to monkeypox – issues for vaccine safety and confidence*	Clancy's Rm
12:00pm – 12:20pm	**Fiona Radcliff ID18**	Clancy's Rm

	University of Auckland *Exploring the cross-reactive immune response to Neisseria gonorrhoeae using MeNZB antisera*	
12:20pm-12:40pm	**Natalie Netzler ID19** *sponsored by Maurice Wilkins Centre* University of Auckland *Investigating the roles of unique Pacific gene variants on innate immunity and susceptibility to viral pathogens*	Clancy's Rm
12:40pm – 1:00pm	**Gerd Mittelstädt ID20** Ferrier Research Institute, Victoria University of Wellington *Yeast-based production of SARS-CoV-2 spike RBD for vaccine development*	Clancy's Rm
1:00pm – 2:00pm	**Lunch**	Trade Area
Session 6: Antimicrobial Resistance **Chaired by: Matt McNeil** *sponsored by Maurice Wilkins Centre*		
2:00pm – 2:25pm	**Kristin Dyet ID21** *sponsored by Bio-Strategy Ltd* Institute of Environmental Science and Research *The global antimicrobial resistance crisis: where does New Zealand stand?*	Clancy's Rm
2:25pm -2:50pm	**Jack Heinemann ID22** *sponsored by Abcam* University of Canterbury *From antimicrobial stewardship to renewal*	Clancy's Rm
2:50pm -3:10pm	**Simon Swift ID23** *sponsored by Millennium Science – 10x Genomics* University of Auckland *Biofilm infections are insensitive to antibiotics; how can they be eradicated?*	Clancy's Rm
3:10pm – 3:30pm	**Essie Van Zuylen ID24** *sponsored by University of Otago* University of Canterbury *Novel inhibitors for combating obligate anaerobic pathogens*	Clancy's Rm
3:30pm – 4:00pm	**Afternoon Tea**	Trade Area
Session 7: Antimicrobial Resistance Continued **Chaired by: Matt McNeil** *sponsored by Maurice Wilkins Centre*		
4:00pm-4:20pm	**Daniel Pletzer ID25** *sponsored by Mediray* University of Otago *Peptides and peptidomimetics to combat multidrug resistant high density infections*	Clancy's Rm
4:20pm – 4:40pm	**Kurt Krause ID26** *sponsored by Bio-Strategy Ltd* University of Otago *BD oxidase is a game-changing drug discovery target for tuberculosis*	Clancy's Rm
4:40pm – 5:00 pm	**Concluding remarks & poster prizes**	Clancy's Rm

Queenstown Research Week Plenary Session *sponsored by University of Otago*		
6:00pm-6:30pm	**Pre QRW Plenary Session Drinks & Canapes**	Reds Bar
6:30pm - 6.45pm	**Welcome: Peter Shepherd, Chair** University of Auckland	Queenstown & Wakatipu Rm
6.45pm - 8.00pm	**"The Future of the New Zealand Research System"** **Prof. Juliet Gerrard** Prime Minister's Chief Science Advisor **Prof. Gary Evans**	Queenstown & Wakatipu Rm

	MBIE's Chief Science advisor **Prof Sunny Collins** Chief Executive, Health Research Council of New Zealand **Chris Higgins** CEO, New Zealanders For Health Research	
8.00pm - 10.00pm	**Fashionomics** *sponsored by Thermo Fisher Scientific*	Level 4, Trade Area