QRW Programme

Webster Centre for Infectious Diseases QMB Satellite Symposium: Infectious Diseases and Membrane Proteins

1 September – 2 September, 2019 Rydges Hotel, Queenstown, New Zealand

Sunday 1 Septe		1
Time	Details	Location
	Mycobacterium tuberculosis membrane proteins	
	ired by Associate Professor Shaun Lott (University of Auckland)	T _
9:00am – 9:05am	Opening remarks: Kurt Krause, Jane Allison	Queenstown
	University of Otago, University of Auckland	Rm
9:05am – 9:40am	Kevin Pethe (Q1)	Queenstown
	Nanyang Technological University	Rm
	Suffocating Mycobacterium tuberculosis: new approaches for anti-TB	
0.40am 10.15am	drug development	Ouganatawa
9:40am – 10:15am	Schara Safarian (Q2)	Queenstown
	Max Planck Institute for Biophysics	Rm
10.15am – 10.35am	Structure and mechanism of the cytochrome bd oxidase Greg Cook (Q3) sponsored by New England Biolabs	Ouganstawn
10.15aiii – 10.55aiii	University of Otago	Queenstown Rm
	Next generation ATP synthase inhibitors to combat drug resistant	KIII
	tuberculosis	
10:35am – 11:00am	Morning Tea	Trade Area
	Virus-host interactions	
	Chaired by Professor Richard Cannon (University of Otago)	
11:00am – 11:20am	Miguel Quiñones-Mateu (Q4) sponsored byThermo Fisher	Queenstown
	Scientific	Rm
	University of Otago	
	Why are HIV-infected individuals failing antiretroviral treatment in	
	Africa?	
11:20am – 11:40am	Merilyn Hibma (Q5)	Queenstown
	University of Otago	Rm
	Evaluating immune modulation of dendritic cells by extracellular	
	vesicles shed from human papillomavirus type 16-E7 expressing	
	keratinocytes	
11:40am – 11:55am	Jan Marzinek (Q6)	Queenstown
	A*STAR	Rm
	Molecular Details of Dengue Virus Conformational Changes and Interactions with Antibodies	
11:55am – 12:15pm	John Taylor (Q7)	Queenstown
11.55am – 12.15pm	University of Auckland	Rm
	Secreted forms of a nonstructural glycoprotein encoded by rotavirus	Kill
	activates proinflammtory signaling via Toll-Like Receptor 2: A novel	
	virotoxin-based pathophysiologic mechanism in viral gastroenteritis.	
12:15pm – 1:30pm	Lunch	Trade Area
· · ·	Host-pathogen interactions	1
	Chaired by Dr Joanna Hicks (University of Waikato)	
1:30pm – 2:05pm	Michael Jennings (Q8)	Queenstown
1.30pm - 2.03pm	Griffith University	Rm
	Glycointeractions: new opportunities to cure and prevent infectious	
	disease	

2:05pm – 2:20pm	Tess Malcolm (Q9)	Queenstown
	Monash University	Rm
	Metal-dependent dynamic equilibrium: A mechanism for regulation	
	of the Plasmodium M17 aminopeptidases?	
2:20pm – 2:40pm	Bruce Russell (Q10) sponsored by Thermo Fisher Scientific	Queenstown
	University of Otago	Rm
	Unravelling the molecular basis for vivax malaria's unhealthy	
	attraction to human reticulocytes	
2.40pm – 2.55pm	Matthew McNeil (Q11)	Queenstown
	University of Otago	Rm
	Essentiality of succinate metabolism in Mycobacterium tuberculosis	
3:00pm – 3:30pm	Afternoon Tea	Trade Area
	Membrane protein structure and targeting	
	Chaired by Professor Kurt Krause (University of Otago)	
3:30 – 3:50pm	Brian Monk (Q12)	Queenstown
	University of Otago	Rm
	Drug discovery using the antifungal target lanosterol $14lpha$ -	
	demethylase	
3:50pm – 4:10pm	lain Hay (Q13)	Queenstown
	University of Auckland	Rm
	Bacterial Secretins – Versatile outer membrane pores	
4:10pm – 4:30pm	Poster Plugs	Queenstown
		Rm
4:30pm – 6:30pm	Poster Session (with beer/wine)	Marquee
7:00pm – late	Conference Dinner – Winnies (shared with BIC)	Winnies

Monday 2 Sept	ember	
Time	Details	Location
	Membrane Protein Structure and Function (shared with BIC)	
Chai	ired by Associate Professor Jane Allison (University of Auckland)	
9:00am – 9:35am	Karen Fleming (Q14) sponsored by Ngaio Diagnostics	Queenstown
	Johns Hopkins University	Rm
	From Chaperones to the Membrane with a BAM!	
9:35am – 9:55am	Ren Dobson (Q15)	Queenstown
	University of Canterbury	Rm
	Insane in the membrane: Biology of bacterial sialic acid metabolism	
9:55am – 10:30am	Michelle Dunstone (Q16)	Queenstown
	Monash University	Rm
	Pore forming proteins of the immune system: What happens when there	
	are no target-recognition domains?	
10:30am – 11:00am	Morning Tea	Trade Area
	Genomics in infectious diseases	
	Chaired by Professor Greg Cook (University of Otago)	
11:00am – 11:35am	Sarah Dunstan (Q17) sponsored by Mediray	Queenstown
	Doherty Institute	Rm
	Genomics to tame Tuberculosis	
11:35am – 11:50pm	Catherine Jia-Yun Tsai (Q18)	Queenstown
	Auckland University	Rm
	A Novel Peptide Delivery Platform for Mucosal Vaccination Based on	
	Group A Streptococcus Pili	
11:50am – 12:10pm	Nikki Moreland sponsored by Abacus dx	Queenstown
	University of Auckland	Rm
	Is immune priming a major driver for rheumatic fever?	
12:10pm – 2:00pm	Lunch and Speed Mentoring	Trade Area
	Molecular mechanisms of pathogenesis	
	Chaired by Dr Tim Allison (University of Canterbury)	1 -
2:00pm – 2:35pm	Peter Bond (Q20)	Queenstown
	A*STAR Singapore	Rm
	Understanding the mechanisms of infectious disease: from atomic to	
	system resolution (2001)	
2:35pm – 2:55pm	Stephanie Dawes (Q21)	Queenstown
	University of Auckland	Rm
	RNase HI activity provides metabolic flexibility under antibiotic stress in	
2.55	the mycobacteria	
2:55pm – 3:10pm	Chris Greening (Q22)	Queenstown
	Monash University	Rm
2,10nm 2,20nm	The hows and whys of F420 biosynthesis in mycobacteria	Ouganstaum
3:10pm – 3:30pm	Jodie Johnston (Q23)	Queenstown
	University of Canterbury	Rm
	Targeting menaquinone biosynthesis in the pathogens M. tuberulcosis and S. aureus	
3:30pm – 4:00pm	Afternoon Tea	Trade Area
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Cha	Neisseria pathogens ired by Dr Joanna Mackichan (Victoria University of Wellington)	
4:00pm – 4:35pm	Maggie So (Q24)	Queenstown
	University of Arizona	Rm
	Commensal Neisseria kill Neisseria gonorrhoeae through a DNA-	
	l denendent mechanism	
4:35pm – 4:55pm	Joanna Hicks (Q25) sponsored by Maurice Wilkins Centre	Queenstown

	Cysteine Biosynthesis; Gonorrhoea's weak link?	
4:55pm – 5:30pm	Kate Seib (Q26)	Queenstown
	Griffith University	Rm
	Advances towards a Neisseria gonorrhoeae vaccine	
5:30pm – 5:35pm	Concluding remarks: Kurt Krause, Jane Allison	Queenstown
		Rm