

<b>QRW Programme</b>		
<b>Biomolecular Interactions and Engineering QMB Satellite Symposium</b>		
1 September – 2 September, 2019, Rydges Hotel, Queenstown, New Zealand		
<b>Sunday 1 September</b>		
<b>Time</b>	<b>Details</b>	<b>Room</b>
9:00-9:10am	<b>Opening remarks:</b> Ren Dobson	<b>Rees Room</b>
<b>Session 1</b>		
Chair: Volker Nock and Adele Williamson		
9:10–9:40am	<b>Keynote (K1) Olwyn Byron</b> University of Glasgow, Scotland <i>The spins: bacterial aldehyde-alcohol dehydrogenase forms spiral complexes critical for activity</i>	<b>Rees Room</b>
9:40–10:00am	<b>Invited (I1) Jenny Malmstrom</b> University of Auckland, New Zealand <i>Protein driven iron mineralisation: self-assembly towards functional nanostructures</i>	<b>Rees Room</b>
10:00–10:30am	<b>Keynote (K2) Tim Cooper</b> Massey University, New Zealand <i>Evolvability and its basis: adaptation of experimentally evolved bacteria</i>	<b>Rees Room</b>
10:30–11:00am	<b>Morning Tea</b>	<b>Trade Area</b>
<b>Session 2</b>		
Chairs: Margie Sunde and Paul Gardner		
11:00–11:30am	<b>Keynote (K3) Laura Domigan</b> University of Auckland, New Zealand <i>Lens protein biomaterials for use in ocular surgery</i>	<b>Rees Room</b>
11:30–11:50pm	<b>Invited (I2) Michael Griffin</b> University of Melbourne, Australia <i>Cryo-EM of the malaria parasite PA28/20S proteasome complex reveals an unusual activation mechanism with implications for artemisinin sensitivity</i>	<b>Rees Room</b>
11:50–12:10pm	<b>Invited (I3) Brendon Green</b> ADVANCED BIOTECH NZ, New Zealand <i>ABNZ - Bovine collagen for wound care</i>	<b>Rees Room</b>
12:10–12:30pm	<b>Selected (S4) Michal Bernach</b> University of Canterbury, New Zealand <i>Artificial leaf surfaces and fluorescently labelled bacteria to investigate phyllosphere microbiology</i>	<b>Rees Room</b>
12:30–1:30pm	<b>Lunch</b>	
<b>Session 3</b>		
Chairs: Karen Fleming and Peter Mace		
1:30–2:00pm	<b>Keynote K4) Margaret Sunde</b> University of Sydney, Australia <i>Viral proteins that mimic host protein interactions to undermine antimicrobial defenses</i>	<b>Rees Room</b>
2:00–2:20pm	<b>Selected (I5) Vanessa Morris</b> University of Canterbury, New Zealand <i>Cysteine oxidation triggers amyloid fibril formation by the tumour suppressor p16</i>	<b>Rees Room</b>
2:20–2:35 pm	<b>Selected (S1) Mihnea Bostina</b> University of Otago, New Zealand <i>Using Cryo-EM to understand seneca valley virus specific tropism for cancer cells</i>	<b>Rees Room</b>
2:35–3:00pm	<b>Keynote (K5) Dominika Elmlund</b> Monash University, Australia <i>The TAFs of TFIID bind and rearrange the topology of the TATA-less RPS5 promoter</i>	<b>Rees Room</b>
3:00–3:30pm	<b>Afternoon Tea</b>	

<b>Session 4</b>		
Chairs: Tim Cooper and Emma Petrie		
3:30–3:50pm	<b>Invited (I6) Paul Gardner</b> University of Otago, New Zealand <i>Protein expression is controlled by the accessibility of translation initiation sites</i>	Rees Room
3:50–4:10pm	<b>Invited (I7) Will Barker</b> Mint Innovation, New Zealand <i>A biometallurgical approach to recovering gold from electronic waste</i>	Rees Room
4:10–4:30pm	<b>Poster Plugs</b>	Rees Room
4:30–6:30pm	<b>Poster Session (with beer/wine)</b>	Rees Room
7:00pm – late	<b>Conference Dinner – Winnies (shared with Infectious Diseases)</b>	

<b>Monday 2 September</b>		
Time	Details	Room
<b>Session 5: Membrane Protein Structure and Function (shared with Infectious Diseases)</b>		
Chair: Jane Allison		
9:00–9:35am	<b>Keynote (K6) Karen Fleming</b> <i>sponsored by Maurice Wilkins Centre</i> John Hopkins University, USA <i>From Chaperones to the Membrane with a BAM!</i>	Queenstown Room
9:35–9:55am	<b>Invited (I6) Ren Dobson</b> University of Canterbury, New Zealand <i>Insane in the membrane: Biology of bacterial sialic acid metabolism.</i>	Queenstown Room
9:55–10:30am	<b>Keynote (K7) Michelle Dunstone</b> Monash University, Australia <i>Pore forming proteins of the immune system: What happens when there are no target-recognition domains?</i>	Queenstown Room
10:30am – 11:00am	<b>Morning Tea</b>	
<b>Session 6</b>		
Chair: Laura Domigan and Michael Griffin		
11:00–11:20am	<b>Keynote (K8) Juliet Gerrard</b> University of Auckland, New Zealand <i>Protein nanotechnology: towards applications</i>	Rees Room
11:20–11:40am	<b>Invited (I7) Volker Nock</b> University of Canterbury, New Zealand <i>Using Lab-on-a-Chip technology to reduce complexity in plant-fungi interaction studies</i>	Rees Room
11:40–11:55am	<b>Selected (S2) Akash Bhattacharya</b> Beckman Coulter, USA <i>How does a “scorched earth” enzyme work? Experimental and computational studies on the human antiretroviral restriction factor SAMHD1.</i>	Rees Room
11:55–12:10pm	<b>Selected (S3) Esteban Cruz</b> University of Sydney, Australia <i>Multifunctional gold nanoparticles targeted against HER2-amplified cells for selective delivery of cytotoxic payloads</i>	Rees Room
12:10–12:30pm	<b>Keynote (K9) Elizabeth Ostrowski</b> Massey University, New Zealand <i>Population genetics of allorecognition in the social amoeba</i>	Rees Room
12:30–2:00pm	<b>Lunch</b>	

<b>Session 7</b>		
Chair: Olwyn Byron and Dominika Elmlund		
2:00–2:30pm	<b>Keynote (K10) Tom Laue</b> <i>sponsored by Lab Supply Ltd</i> University of New Hampshire, USA <b><i>High concentration protein solutions: insights from analytical ultracentrifugation and analytical electrophoresis</i></b>	Rees Room
2:30–2:50pm	<b>Selected (S4) Adele Williamson</b> University of Waikato, New Zealand <b><i>Repair outside the box? Structural and functional diversity of bacterial ATP-dependent DNA ligases</i></b>	Rees Room
2:50–3:10pm	<b>Invited (S5) Alexander McLellan</b> University of Otago, New Zealand <b><i>Promoters to drive Chimeric Antigen Receptor (CAR) T cell therapy</i></b>	Rees Room
3:10–3:30pm	<b>Invited (I8) Emma Petrie</b> Walter + Eliza Hall Institute, Australia <b><i>Learning from viral inhibitory proteins to block the pathway to necroptotic cell death</i></b>	Rees Room
3:30–4:00pm	<b>Afternoon Tea</b>	
<b>Session 8:</b>		
Chair: James Murphy and Vanessa Morris		
4:00–4:25pm	<b>Keynote (K11) Jane Allison</b> University of Auckland, New Zealand <b><i>Elucidation of allosteric mechanism via network analysis of molecular dynamics simulation</i></b>	Rees Room
4:25–4:40pm	<b>Invited (S6) Adam Middleton</b> University of Otago, New Zealand <b><i>Discovery of two inhibitors of ubiquitin chain growth and their future in cells</i></b>	Rees Room
4:40–5:00pm	<b>Invited (I10) Peter Mace</b> <i>sponsored by Beckman Coulter Life Sciences</i> University of Otago, New Zealand <b><i>Using helices to cope with stress</i></b>	Rees Room
5:00–5:30pm	<b>Keynote (K12) Tuomas Knowles</b> <i>sponsored by Thermo Fisher Scientific</i> University of Cambridge, England <b><i>Protein self-assembly and misassembly</i></b>	Rees Room
5:30–5:35pm	<b>Concluding remarks</b>	Rees Room