

<p><b>QRW Programme</b>  <b>Advances in Microscopy</b>  Monday 29 - Tuesday 30 August, 2022  Rydges Hotel, Queenstown, New Zealand</p>
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<b>Monday 29 August</b>		
Time	Details	Location
6:00pm – 7:15pm	<b>Microscopy NZ AGM</b>	<b>Wakatipu Rm, Rydges Hotel</b>
7:30pm – 11pm	<b>Welcome social - drinks and nibbles</b> <i>Sponsored by Zeiss</i>	<b>Mercure Hotel</b>

<b>Tuesday 30 August</b>		
Time	Details	Location
<p><b><u>New Technologies</u></b>  <b>Chaired by Dr Karen Reader (Otago)</b></p>		
8.55am - 9.00am	<b>Karen Reader, Lloyd Donaldson, Mihnea Bostina</b> <i>Introduction</i>	<b>Wakatipu Rm</b>
9.00am - 9.15am	<b>Vitaly Lozbin (AM1)</b> JEOL <i>Recent advances in scanning electron microscopy and complementing techniques for life science research</i>	<b>Wakatipu Rm</b>
9.15am - 9.30am	<b>Ken van't Schip (AM2)</b> SCITEK <i>Advances in electron microscopy instrumentation</i>	<b>Wakatipu Rm</b>
9.30am - 9.45am	<b>Bee Yi Tan (AM3)</b> ZEISS <i>Correlative microscopy in the life sciences - 3D CLEM to CryoEM</i>	<b>Wakatipu Rm</b>
9.45am – 10.00am	<b>Cornelia Riethmann (AM4)</b> BIO-STRATEGY <i>MICA – The worlds first Microhub</i>	<b>Wakatipu Rm</b>
10.00am-10.30am	<b>Morning Tea</b>	<b>Trades Area &amp; Level 5</b>
<p><b><u>Ways and Means</u></b>  <b>Chaired by Dr Lloyd Donaldson (Scion)</b></p>		
10.30am - 10.50am	<b>Eric Hansen (AM5)</b> University of Melbourne <i>Cryo-Electron Microscopy at the Bio21 Ian Holmes Imaging Center</i>	<b>Wakatipu Rm</b>
10.50am - 11.10am	<b>Monica Tromp (AM6)</b> <i>Sponsored by University of Otago</i> University of Otago	<b>Wakatipu Rm</b>

	<i>Microbioarchaeology and the role of microscopy</i>	
11.10am - 11.30am	<b>Duane Harland (AM7)</b> AgResearch <i>A curly question about hair answered using confocal microscopy</i>	Wakatipu Rm
11.30am - 11.50am	<b>Jacqueline Ross (AM8)</b> University of Auckland <i>Ready, STEDy, go – first steps into STED microscopy</i>	Wakatipu Rm
11.50am - 12.10am	<b>Andrew Chan (AM9)</b> University of Auckland <i>New on the Physics Menu: Superconducting Sandwiches!</i>	Wakatipu Rm
12.10am - 12.30am	<b>Rob Woolley (AM10)</b> University of Otago <i>Is seeing believing: a brief overview of artificial intelligent processing tools for improving microscopy images</i>	Wakatipu Rm
12.30-1.30	<b>Lunch</b>	Trades Area, Level 5 & Bazaar
<b><u>Young researchers</u></b> <b>Chaired by Dr Duane Harland (AgResearch)</b>		
1.30pm-1.45pm	<b>Thilina Herath (AM11)</b> University of Otago <i>Role of host exocytosis in cell-to-cell spread of Shigella flexneri</i>	Wakatipu Rm
1.45pm- 2.00pm	<b>Rebecca Benham (AM12)</b> University of Otago <i>Critiquing starch and raphides as evidence of cultigens from wetland archaeological Māori ditch systems using light microscopy and SEM imaging</i>	Wakatipu Rm
2.00pm - 2.10pm	<b>Anika Kelty (AM13)</b> University of Otago <i>Ultrastructure, function and relationships of Oocyte mitochondria</i>	Wakatipu Rm
2.10pm - 2.20pm	<b>James Hodgkinson-Bean (AM14)</b> University of Otago <i>Cryo-EM structure of the oversized bacteriophage øTE capsid</i>	Wakatipu Rm
2:20pm - 2.30pm	<b>Halima Siddiqui (AM15)</b> University of Otago <i>Understanding the Role of Plasminogen Receptors in Lipoprotein(a) Uptake via Confocal Microscopy</i>	Wakatipu Rm
2.30pm - 2.45pm	<b>Emma Buckels (AM16)</b> University of Auckland <i>Visualising pancreatic islets; a method for multiplex immunohistochemistry staining, whole-slide imaging, and a Fiji-based image analysis workflow</i>	Wakatipu Rm
2.45pm - 3.00pm	<b>Alice Eruera (AM17)</b> University of Otago	Wakatipu Rm

	<i>Structural Investigation of the Human Norovirus Precursor Polymerase</i>	
3.00pm - 3.15pm	<b>Shaima Albeloushi (AM18)</b> University of Auckland <i>Understanding the Role of Plasminogen Receptors in Lipoprotein(a) Uptake via Confocal Microscopy</i>	<b>Wakatipu Rm</b>
3.15pm - 3.30pm	<b>POSTERS [8]</b> 1 slide / 2 minutes presentations <b>Shakeel Waqqar (AM25)</b> - <i>Obtaining Seneca Valley virus variants with increased capsid stability under evolutionary pressure</i> <b>Xiaoxuan Deng (AM26)</b> - <i>3D Melt extrusion of PCL/PEG/curcumin-loaded PLA microspheres for suture applications.</i> [University of Otago] <b>Nicola Shaw (AM27)</b> - <i>Skin characteristics influencing post-harvest damage in fruit.</i> [Plant & Food Research] <b>En Watanabe (AM28)</b> - <i>Effects of Seneca Valley Virus with clinically available chemotherapeutic drugs on 3D tumour-like cell cultures of triple negative breast cancer cells.</i> [University of Otago] <b>Francesca Hills (AM29)</b> - <i>Comparison of the structural and phylogenetic evolution of the Coronaviridae spike protein.</i> [University of Otago] <b>Mina Rajabi (AM30)</b> - <i>Chitooligosaccharide-based inks for 3D printing of hard tissue scaffolds.</i> [University of Otago] <b>Kim Parker (AM31)</b> - <i>Simple methods to assess collagen self-assembly structure.</i> [AgResearch] <b>Mozammel Haque Bhuiyan (AM32)</b> - <i>Simple methods to assess collagen self-assembly structure.</i> [University of Otago]	<b>Wakatipu Rm</b>
3.30pm-4.00pm	<b>Afternoon Tea</b>	<b>Trades Area &amp; Level 5</b>
<p><b><u>Biological Sciences</u></b>  <b>Chaired by Dr Mihnea Bostina (Otago)</b></p> <p><b><i>In the memory of Alok Mitra</i></b></p>		
4.00pm-4.20pm	<b>Mark Hurst (AM19)</b> <i>sponsored by QIAGEN</i> AgResearch <i>Defining the structure and assembly of the antifeeding prophage</i>	<b>Wakatipu Rm</b>
4.20pm-4.40pm	<b>Laura Gumy (AM20)</b> University of Otago <i>Visualising transport in neurons</i>	<b>Wakatipu Rm</b>
4.40pm-5.00pm	<b>Ren Dobson (AM21)</b> <i>sponsored by Cytiva</i>	<b>Wakatipu Rm</b>

	University of Canterbury <i>Unravelling the molecular basis of bacterial gene regulation</i>	
5.00pm-5.20pm	<b>Sai Velamoor (AM22)</b> University of Otago <i>Visualizing viral replication and assembly using volume electron microscopy</i>	<b>Wakatipu Rm</b>
5.20pm-5.40pm	<b>Ria Rebstock (AM23)</b> Plant & Food Research <i>Designer skins; features contributing to lowered transpiration rates in fresh produce</i>	<b>Wakatipu Rm</b>
5.40pm-6.00pm	<b>Lloyd Donaldson (AM24)</b> Scion <i>Confocal SRRF microscopy of plant cell walls</i>	<b>Wakatipu Rm</b>
6.00pm-7.00pm	<b>Poster Session</b> with drinks and canapes	<b>Level 5</b>
7:30pm	<b>Conference Dinner</b> <i>Sponsored by JEOL</i>	<b>Mercure Hotel</b>