

## QRW Programme

### QMB

Tuesday 30th August – Thursday 1st September, 2022  
Rydges Hotel, Queenstown, New Zealand

## Tuesday 30<sup>th</sup> August

Time	Details	Location
<b>Queenstown Research Week Plenary Session</b> <i>sponsored by University of Otago</i>		
6:00pm-6:30pm	<b>Pre QRW Plenary Session Drinks &amp; Canapes</b>	Reds Bar
6:30pm - 6.45pm	<b>Welcome: Peter Shepherd, Chair</b> University of Auckland	Queenstown & Wakatipu Rm
6.30pm – 8.00pm	<b>“The Future of the New Zealand Research System”</b> <b>Prof. Juliet Gerrard</b> Prime Minister's Chief Science Advisor <b>Prof. Gary Evans</b> MBIE's Chief Science advisor <b>Prof Sunny Collins</b> Chief Executive, Health Research Council of New Zealand <b>Chris Higgins</b> CEO, New Zealanders For Health Research	Queenstown & Wakatipu Rm
8.00pm – 10.00pm	<b>Fashionomics</b> <i>sponsored by Thermo Fisher Scientific</i>	Level 4, Trade Area

## Wednesday 31<sup>st</sup> August

Time	Details	Location
<b>Molecular biology and genomics of climate change</b> <i>Sponsored by AgResearch</i> <b>Chaired by Associate Professors Maren Wellenreuther (PFR, UoA) &amp; Björn Oback (AgResearch,UoA and UoW)</b>		
8.30am - 8.35am	<b>Welcome and Introduction: Maren Wellenreuther</b> Plant and Food Research & University of Auckland	Clancy's Rm, QT Rees Rm & Von Rm (overflow)
8.35am - 9.00am	<b>Greg Bryan<sup>1,2</sup> (Q1)</b> <sup>1</sup> AgResearch, <sup>2</sup> ZeaKal Inc <i>Enhancing crop yield and composition to reduce environmental impacts of agriculture</i>	Clancy's Rm, QT Rees Rm & Von Rm (overflow)
9.00am - 9.25am	<b>Goetz Laible<sup>1,2</sup> (Q2)</b> <i>sponsored by Beckman Coulter Life Sciences</i> <sup>1</sup> AgResearch, <sup>2</sup> University of Auckland <i>Climate-smart cattle – rapid adaptation to warmer environmental conditions using modern genetic technologies</i>	Clancy's Rm, QT Rees Rm & Von Rm (overflow)
9.25am - 9.45am	<b>Michael Knapp (Q3)</b> University of Otago <i>Is the kea really an alpine parrot? A genomic investigation into the fate of the kea in a warming world</i>	Clancy's Rm, QT Rees Rm & Von Rm (overflow)

9.45am - 10.00am	<b>Kiel Hards<sup>1,2,3</sup> (Q4)</b> <sup>1</sup> Ministry for Primary Industries, <sup>2</sup> University of Otago, <sup>3</sup> University of Auckland <i>The chemical microbiology behind infectious disease and the microbiome</i>	Clancy's Rm, QT Rees Rm & Von Rm (overflow)
10.00am - 10.30am	<b>Morning Tea</b>	Trade Area & L5
<b>Māori, genomics, and Indigenous data sovereignty</b> Chaired by Drs Alana Alexander (UoO), Linley Jesson (PFR)		
10.30am - 10.35am	<b>Brief mihi to welcome folks to the session</b>	Queenstown & Wakatipu Rm, QT Von Rm (overflow)
10.35am - 10:55am	<b>Peter-Lucas Jones/Keoni Mahelona (Q5)</b> <i>sponsored by Maurice Wilkins Centre</i> Te Hiku Media <i>He reo tuku iho, he reo ora: Living language transmitted intergenerationally</i>	Queenstown & Wakatipu Rm, QT Von Rm (overflow)
10:55am - 11.15am	<b>Waitangi Wood<sup>1,2</sup> (Q6)</b> <i>sponsored by Oxford Nanopore Technologies</i> <sup>1</sup> Independent Researcher, <sup>2</sup> Ngatirua, Ngati Awa, Ngati Kahu and Nga Puhi Nui <i>Connectivity: a sovereign authority perspective</i>	Queenstown & Wakatipu Rm, QT Von Rm (overflow)
11.15am - 11.35am	<b>Maui Hudson<sup>1,2</sup> (Q7)</b> <i>sponsored by University of Otago</i> <sup>1</sup> Te Kotahi Research Institute, University of Waikato, <sup>2</sup> Equity in Indigenous Research and Innovation Coordinating Hub (ENRICH) <i>Biocultural Labels: disclosing Indigenous rights in genomic data</i>	Queenstown & Wakatipu Rm, QT Von Rm (overflow)
11.35am - 11:55am	<b>Lisa Warbrick<sup>1,2</sup> (Q8)</b> <i>sponsored by illumina</i> <sup>1</sup> Indigenous Genomics Institute, <sup>2</sup> Ngātī Awa, Ngātī Rangitīhi, Ngātī Maru, Te Atihaunui a Pāpārangi <i>The Indigenous Genomics Institute</i>	Queenstown & Wakatipu Rm, QT Von Rm (overflow)
11:55am - 12.15pm	<b>Catherine Collins (Q9)</b> <i>sponsored by Abacus DX</i> University of Otago <i>Kiore and their contribution to understanding the movement of people across the Pacific</i>	Queenstown & Wakatipu Rm, QT Von Rm (overflow)
12.15pm - 12.30pm	<b>Launch of Te Nohonga Kaitiaki Guidelines for Genomic Research on Taonga Species (Maui Hudson)</b> <i>sponsored by University of Otago</i>  <b>Whakamutunga</b>	Queenstown & Wakatipu Rm, QT Von Rm (overflow)
12.30pm - 1.30pm	<b>QMB Meeting Society AGM</b>	Queenstown & Wakatipu Rm
12.30pm - 1.30pm	<b>Lunch</b>	Trade Area (w overflow on L5 & Bazaar Restaurant)
<b>Big data, data integration and metaomics: from phenotype to genotype</b> Chaired by Dr Heidi Dungey (Scion) and Linley Jesson (PFR)		

1.30pm - 2.00pm	<b>Yalu Wen (Q10)</b> University of Auckland <i>Explainable deep transfer learning model for disease risk prediction using high-dimensional genomic data</i>	Queenstown & Wakatipu Rm, QT Von Rm (overflow)
2.00pm - 2.30pm	<b>Olivia Angelin-Bonnet (Q11)</b> Massey University <i>From genotype to phenotype: reconstructing causal multi-omics networks in the autotetraploid potato</i>	Queenstown & Wakatipu Rm, QT Von Rm (overflow)
2.30pm - 3.00pm	<b>Matthew Littlejohn (Q12)</b> Livestock Improvement Corporation (LIC) <i>Non-additive mutation discovery in sequenced cattle populations</i>	Queenstown & Wakatipu Rm, QT Von Rm (overflow)
3.00pm - 3.15pm	<b>Jeremy Han (Q13)</b> <i>sponsored by Bio-Rad Laboratories Pty Ltd</i> Garvan Institute of Medical Research, Sydney, Australia <i>Modelling drug-induced apoptosis to rationalise multi-agent chemotherapy in high-risk neuroblastoma</i>	Queenstown & Wakatipu Rm, QT Von Rm (overflow)
3.15pm - 3.30pm	<b>Heidi Dungey (Q14)</b> Scion <i>Making progress with big data in radiata pine (Pinus radiata)</i>	Queenstown & Wakatipu Rm, QT Von Rm (overflow)
3.30pm - 4.00pm	<b>Afternoon Break</b>	Trade Area & L5
4.00pm - 5.30pm	<b>POSTER SESSION</b> <i>sponsored by Abcam</i>	Marquee, L7
7.00pm	<b>Conference dinner</b> <i>sponsored by QIAGEN</i>	Skyline

<b>Thursday 1<sup>st</sup> September</b>		
<b>Time</b>	<b>Details</b>	<b>Location</b>
<b><u>The art and value of presenting molecular biology to the public</u></b> <b>Chaired by Dr Ang McCaughran (UoW)</b>		
8.30am - 9.05am	<b>Siouxie Wiles (Q15) (ZOOM)</b> University of Auckland <i>Communicating the pandemic</i>	Clancy's Rm QT Rees Rm & Von Rm (overflow)
9.05am - 9.20am	<b>Justin O'Sullivan (Q16)</b> University of Auckland <i>Making science palatable for our communities</i>	Clancy's Rm QT Rees Rm & Von Rm (overflow)
9.20am - 9.35am	<b>Lisa Matisoo-Smith (Q17)</b> University of Otago <i>Community engaged and community driven research – an example from PNG</i>	Clancy's Rm QT Rees Rm & Von Rm (overflow)
9.35am - 9.55am	<b>Kathy Belov (Q18) (ZOOM)</b> University of Sydney, Sydney, Australia <i>Making genomics relevant</i>	Clancy's Rm QT Rees Rm & Von Rm (overflow)
10.00am - 10.30am	<b>Morning Tea</b>	Trade Area & L5

10.30am-12.30pm	<b>Parallel Room:</b> <b>Early/Mid Career Researcher Workshop</b> Science Media Centre (1h) ECR Panel discussion (1h)	QT Von Rm
<b><u>Environmental DNA/RNA monitoring to inform ecosystem management and conservation</u></b> <b>Chaired by Associate Professor Xavier Pochon (UoA)</b>		
10.30am - 11.00am	<b>Mike Bunce (Q19)</b> Institute of Environmental Science and Research <i>Community Engagement, Biobanks, Accessible Data and Deterrents – how important are these elements in a rapidly developing eDNA landscape?</i>	Queenstown & Wakatipu Rm
11.00am - 11.30am	<b>Susie Wood (Q20)</b> <i>sponsored by Bio-Rad Laboratories Pty Ltd</i> Cawthron Institute <i>Learning from the past to protect and guide lake restoration – a national scale study in New Zealand</i>	Queenstown & Wakatipu Rm
11.30am - 11.45am	<b>Helen Barclay &amp; Luke Noble (Q21)</b> EnviroDNA, Melbourne, Australia <i>Industry adoption of eDNA for biodiversity monitoring and natural capital accounting: EnviroDNA perspective</i>	Queenstown & Wakatipu Rm
11.45am - 12.00pm	<b>Kirsten Fernandes (Q22)</b> University of Otago <i>Biodiversity on the fly: Carrion fly iDNA metabarcoding to monitor mammals in a fragmented terrestrial ecosystem</i>	Queenstown & Wakatipu Rm
12.00pm - 12.15pm	<b>Alejandro Trujillo Gonzalez (Q23)</b> University of Canberra, Canberra, Australia <i>Detection of exotic Khapra beetle, Trogoderma granarium, in dust samples collected from shipping containers in Australia</i>	Queenstown & Wakatipu Rm
12.15pm - 12.30pm	<b>Jessica Wallbank (Q24)</b> University of Auckland <i>Marine plastic-degrading bacteria are rare and exhibit little substrate preference for attachment</i>	Queenstown & Wakatipu Rm
12.30pm -1.30pm	<b>Lunch</b>	Trade Area (w overflow on L5 & Bazaar Restaurant)
<b>Parallel room</b> <b><u>Environmental DNA/RNA monitoring to inform ecosystem management and conservation</u></b> <b>Chaired by Associate Professor Xavier Pochon (UoA) Sponsored by QIAGEN</b>		
<b>Second session on eDNA</b>		
1.30pm - 2.00pm	<b>Anastasija Zaiko (Q25)</b> <i>sponsored by Bio-Strategy Ltd</i> Cawthron Institute <i>Towards optimisation of molecular surveillance techniques for wide uptake in marine biosecurity</i>	QT Von Rm
2.00pm - 2.30pm	<b>Neill Gemmell (Q26)</b> <i>sponsored by Mediray</i> University of Otago <i>Global surveillance using environmental DNA</i>	QT Von Rm

2.30pm - 2.45pm	<b>Jo Stanton (Q27)</b> University of Otago <i>Frogs, ponds and plants: Development of DNA extraction technologies for field deployment</i>	QT Von Rm
2.45pm - 3.00pm	<b>Gert-Jan Jeunen (Q28)</b> University of Otago <i>Squeezing out ecological insights from contemporary and historic sponge borne eDNA</i>	QT Von Rm
3.00pm - 3.15pm	<b>Ulla von Ammon (Q29)</b> Cawthron Institute <i>Moving environmental DNA (eDNA) technologies from benchtop to the field using passive sampling and PDQeX extraction</i>	QT Von Rm
3.15pm - 3.30pm	<b>Shaun Wilkinson (Q30)</b> Wilderlab NZ <i>Community science provides an effective catalyst for the uptake of regulatory eDNA monitoring in Aotearoa New Zealand</i>	QT Von Rm
3.30pm - 4.00pm	<b>Afternoon Break</b>	Trade Area & L5
<b>3rd generation sequencing - a new era for molecular biology</b> <b>Chaired by Dr Donia Macartney-Coxson (ESR) and Miles Benton (ONT)</b>		
1.00pm - 1.30pm	<b>Miles Benton<sup>1,2</sup> (Q31)</b> <i>sponsored by Oxford Nanopore Technologies</i> <sup>1</sup> Institute of Environmental Science and Research (ESR), <sup>2</sup> Oxford Nanopore Technologies <i>The game-changing nature of Nanopore sequencing</i>	Queenstown & Wakatipu Rm
1.30pm - 2.15pm	<b>Devin Drown (Q32) (ZOOM)</b> University of Alaska Fairbanks <i>Decoding Alaska's soil resistome through the lens of Nanopore sequencing</i>	Queenstown & Wakatipu Rm
	<b>Jean-Baka Domelevo Entfellner (Q33) (ZOOM)</b> International Livestock Research Institute, Nairobi, Kenya <i>A long road to the wide adoption of 3rd-gen genomics: haps and mishaps of nanopore sequencing in Africa</i>	Queenstown & Wakatipu Rm
2.15pm - 2.40pm	<b>Ting-Hsuan Chen (Q34)</b> <i>sponsored by Mediscope</i> Department of Wine, Food, and Molecular Biosciences, Lincoln University, Christchurch. Current affiliation: The New Zealand Institute for Plant and Food Research Ltd, Lincoln <i>Long-read sequencing technology enables comprehensive profiling of transposon expression and reverse transcription</i>	Queenstown & Wakatipu Rm
2.40pm-2.55pm	<b>Julie Blommaert (Q35)</b> Plant and Food Research <i>Anything but the SNP- what third generation sequencing can teach us about genomic variation</i>	Queenstown & Wakatipu Rm
2.55pm-3.10pm	<b>Donna Bond (Q36)</b> University of Otago	Queenstown & Wakatipu Rm

	<i>Long read sequencing and understanding the genome and biology of the New Zealand Brushtail Possum</i>	
3.10pm-3.25pm	<b>Aniruddha Chatterjee (Q37)</b> University of Otago <i>Insights from DNA methylome</i>	Queenstown & Wakatipu Rm

3.25pm - 4.00pm	<b>Afternoon Tea</b>	Level 5 Lobby
<b><u>Host biology in light of the microbiome: advances towards understanding the hologenome</u></b> <b>Chaired by Drs Amali Thrimawithana (PFR) &amp; Manpreet Dhani (Landcare Research)</b>		
4.00pm - 4.30pm	<b>Allen Rodrigo (Q38)</b> University of Auckland <i>From host-microbe associations to holobionts: what ecological and evolutionary drivers facilitate this transition?</i>	Queenstown & Wakatipu Rm, QT Von Rm (overflow)
4.30pm - 4.45pm	<b>William Pearman (Q39)</b> University of Otago <i>Host density drives microbiome diversity patterns in southern bull kelp</i>	Queenstown & Wakatipu Rm, QT Von Rm (overflow)
4.45pm - 5.00pm	<b>Rebecca French (Q40)</b> The University of Sydney, Sydney, Australia <i>The drivers of viral diversity and movement in New Zealand ecological communities</i>	Queenstown & Wakatipu Rm, QT Von Rm (overflow)
5.00pm - 5.15pm	<b>Andrew Wallace (Q41)</b> Livestock Improvement Corporation (LIC) <i>Large scale shotgun sequencing study of the NZ dairy cow milk microbiome</i>	Queenstown & Wakatipu Rm, QT Von Rm (overflow)
5.15pm - 5.30pm	<b>Brett Wagner (Q42)</b> University of Auckland <i>Sinonasal and gastrointestinal bacterial composition and abundance are stable after 1 week of once-daily oral antibiotic treatment for chronic rhinosinusitis</i>	Queenstown & Wakatipu Rm, QT Von Rm (overflow)
5.30pm - 6.00pm	<b>Hayley Ridgway (Q43)</b> Plant and Food Research <i>The mānuka microbiome</i>	Queenstown & Wakatipu Rm, QT Von Rm (overflow)
6.00pm	<b>Conference close</b>	