

<b>QRW Programme</b> <b>QMB</b> Wednesday 1st – Thursday 2nd September, 2021 Rydges Hotel, Queenstown, New Zealand
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<b>Tuesday 31 August</b>		
<b>Time</b>	<b>Details</b>	<b>Location</b>
<b><u>Queenstown Research Week Session</u></b> <i>sponsored by University of Otago</i>		
6.00pm – 7.30pm	<b>Professor Gary Evans, Chief Science Adviser MBIE</b> “The Changing Landscape of Science Funding”	<b>Queenstown &amp; Wakatipu Rm</b>
7.30pm - 9.30pm	<b>Fashionomics</b> <i>sponsored by Thermo Fisher Scientific</i>	<b>Level 4, Trade Area</b>

<b>Wednesday 1<sup>st</sup> September</b>		
<b>Time</b>	<b>Details</b>	<b>Location</b>
<b><u>Molecular biology and genomics of climate change</u></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	Welcome and Introduction: Maren Wellenreuther Plant and Food Research & University of Auckland	<b>Clancy’s Rm &amp; QT Rees Rm (overflow)</b>
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>	<b>Clancy’s Rm &amp; QT Rees Rm (overflow)</b>
9.00am - 9.25am	<b>Goetz Laible<sup>1,2</sup> (Q2)</b> <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>	<b>Clancy’s Rm &amp; QT Rees Rm (overflow)</b>
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>	<b>Clancy’s Rm &amp; QT Rees Rm (overflow)</b>
9.45am - 10.00am	<b>Dafni Anastasiadi (Q4)</b> Plant and Food Research (PFR) <i>The thermal environment experienced by the parents can affect gene expression of the offspring in the Australasian snapper</i>	<b>Clancy’s Rm &amp; QT Rees Rm (overflow)</b>
10.00am - 10.30am	<b>Morning Tea</b>	<b>Trade Area &amp; L5</b>
<b><u>Māori, genomics, and Indigenous data sovereignty</u></b> <b>Chaired by Drs Alana Alexander (UoO), Linley Jesson (PFR), Rebekah Fuller (Independent)</b>		
10.30am - 10.35am	<b>Brief mihi to welcome folks to the session</b>	<b>Queenstown &amp; Wakatipu Rm</b>

10.35am - 10:55am	<b>Peter-Lucas Jones/Keoni Mahelona (Q5)</b> Te Hiku Media <i>He reo tuku iho, he reo ora: Living language transmitted intergenerationally</i>	Queenstown & Wakatipu Rm
10:55am - 11.15am	<b>Waitangi Wood<sup>1,2</sup> (Q6)</b> <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
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
11.35am - 11:55am	<b>Lisa Warbrick<sup>1,2</sup> (Q8)</b> <i>sponsored by University of Otago</i> <sup>1</sup> Indigenous Genomics Institute, <sup>2</sup> Ngāti Awa, Ngāti Rangitahi, Ngāti Maru, Te Atihaunui a Pāpārangi <i>The Indigenous Genomics Institute</i>	Queenstown & Wakatipu Rm
11:55am - 12.15pm	<b>Rebekah Fuller<sup>1</sup>/Mere George<sup>2</sup> (Q9)</b> <sup>1</sup> Independent Researcher, <sup>2</sup> Minginui Nursery <i>“Nāku te rourou nāu te rourou, ka ora ai te iwi”</i> <i>Acknowledging IP from Mātauranga Māori and Western Science</i>	Queenstown & Wakatipu Rm
12.15pm - 12.30pm	<b>Launch of Te Nohonga Kaitiaki Guidelines for Genomic Research on Taonga Species (Maui Hudson)</b>  <b>Whakamutunga</b>	Queenstown & Wakatipu Rm
12.30pm - 1.30pm	<b>Lunch</b>	Trade Area (w overflow on L5 & Bazaar Restaurant)
<b><u>Big data, data integration and metaomics: from phenotype to genotype</u></b> <b>Chaired by Dr Heidi Dungey (Scion) and Linley Jesson (PFR)</b>		
1.30pm - 2.00pm	<b>Blake List (Q10)</b> Plant and Food Research (PFR) <i>New technologies for building and understanding plant interaction networks</i>	Queenstown & Wakatipu Rm
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
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
3.00pm - 3.15pm	<b>Jeremy Han (Q13) (ZOOM)</b> Garvan Institute of Medical Research, Sydney, Australia	Queenstown & Wakatipu Rm

	<i>Modelling drug-induced apoptosis to rationalise multi-agent chemotherapy in high-risk neuroblastoma</i>	
3.15pm - 3.30pm	<b>Sreemol Gokuladhas (Q14)</b> University of Auckland <i>Unravelling the shared genetic mechanisms underlying 18 autoimmune diseases using a systems approach</i>	Queenstown & Wakatipu Rm
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
6.00pm	<b>Conference dinner</b> <i>sponsored by QIAGEN</i>	Skyline

<b>Thursday 2<sup>nd</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 Associate Professor Ceridwen Fraser (UoO)</b>		
8.30am - 9.05am	<b>Siouxie Wiles (Q15)</b> <i>sponsored by Thermo Fisher Scientific</i> University of Auckland <i>Creating a trusted media presence: from ivory-towered academic to “pink-haired COVID lady”.</i>	Clancy’s Rm & QT Rees 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 (overflow)
9.20am - 9.35am	<b>Lisa Matisoo-Smith (Q17)</b> University of Otago <i>Community engaged and community driven research – and example from PNG</i>	Clancy’s Rm & QT Rees Rm (overflow)
9.35am - 9.55am	<b>Kathy Belov (Q18) (ZOOM)</b> <i>sponsored by illumina</i> University of Sydney, Sydney, Australia <i>Making genomics relevant</i>	Clancy’s Rm & QT Rees Rm (overflow)
10.00am - 10.30am	<b>Morning Tea</b>	Trade Area & L5
10.30am-12.30pm	<b><u>Parallel Room:</u></b> <b><u>Early/Mid Career Researcher Workshop</u></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> <i>sponsored by QIAGEN</i>		
10.30am - 11.00am	<b>Mike Bunce (Q19)</b> Curtin University, Perth, Australia <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 Millennium Science</i> Cawthron Institute <i>Learning from the past to protect and guide lake restoration</i>	Queenstown & Wakatipu Rm

11.30am - 11.45am	<b>Gavin Lear (Q21)</b> University of Auckland <i>Environmental DNA as an indicator of soil quality and pathogen abundance</i>	Queenstown & Wakatipu Rm
11.45am - 12.00pm	<b>Pamela Olmedo-Rojas (Q22)</b> University of Otago <i>Optimizing metabarcoding protocols for assessing diversity of plants and animals using high-value (e.g., Antarctic) soil samples</i>	Queenstown & Wakatipu Rm
12.00pm - 12.15pm	<b>Lara Urban (Q23)</b> University of Otago <i>Leveraging Adaptive Sampling of Environmental DNA for Monitoring the Critically Endangered Kākāpō</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><u>Parallel room</u></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>		
1.30pm - 1.30pm	<b><u>Second session on eDNA</u></b>	
1.30pm - 2.00pm	<b>Anastasija Zaiko (Q25)</b> <i>sponsored by Bio-Rad Laboratories Pty 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 Thermo Fisher Scientific</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>The effect of DNA extraction on environmental sampling using a skin microbial model from the New Zealand native frog Leiopelma hochstetteri</i>	QT Von Rm
2.45pm - 3.00pm	<b>Gert-Jan Jeunen (Q28)</b> University of Otago <i>Sentinels of change. biodiversity monitoring through environmental DNA obtained from filter feeders</i>	QT Von Rm
3.00pm - 3.15pm	<b>Ulla von Ammon (Q29)</b> Cawthron Institute <i>Bucket overboard. Simplifying eDNA sampling at SEA for targeted detection and community acquisition</i>	QT Von Rm
3.15pm - 3.30pm	<b>Shaun Wilkinson (Q30)</b> Wilderlab NZ	QT Von Rm

	<i>Community science provides an effective catalyst for the uptake of regulatory eDNA monitoring in Aotearoa New Zealand</i>	
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 (ESR)</b>		
1.00pm - 1.30pm	<b>Miles Benton (Q31)</b> ESR <i>The game-changing nature of Nanopore sequencing</i>	Queenstown & Wakatipu Rm
1.30pm - 2.15pm	Real-life Applications of nanopore sequencing  <b>Jurgen Hench (Q32) Recorded</b> Universitätsspital Basel, Basel, Switzerland <i>Digital Pathology through DNA Methylome Analysis: Clinical Implications</i>  <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> Department of Wine, Food, and Molecular Biosciences, Lincoln University, Christchurch, NZ. 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>Georgia Breckell (Q35)</b> Massey University <i>Bacterial DNA modifications are dependent on both genotype and growth conditions</i>	Queenstown & Wakatipu Rm
2.55pm-3.10pm	<b>Tim Hore (Q36)</b> University of Otago <i>Long read sequencing and understanding the genome and biology of the New Zealand Brushtail Possum</i>	Queenstown & Wakatipu Rm
3.10pm-3.25pm	<b>Julie Blommaert (Q37)</b> Uppsala University, Uppsala, Sweden <i>What can third-generation sequencing reveal about conservation in G-quadruplexes and other GC-rich genomic regions?</i>	Queenstown & Wakatipu Rm
3.25pm - 4.00pm	<b>Afternoon Tea</b>	Level 5 Lobby
<b>Host biology in light of the microbiome: advances towards understanding the hologenome</b> <b>Chaired by Drs Amali Thrimawithana (PFR) &amp; Manpreet Dhani (Landcare Research)</b>		
4.00pm - 4.30pm	<b>Gene Tyson (Q38) (ZOOM) sponsored by Abcam</b> Queensland University of Technology, Australia	Queenstown & Wakatipu Rm

4.30pm - 4.45pm	<b>William Pearman (Q39)</b> University of Otago <i>Environmental and host-genetic analysis of host-associated microbiomes over large spatial scales</i>	<b>Queenstown &amp; Wakatipu Rm</b>
4.45pm - 5.00pm	<b>Giselle Wong (Q40)</b> University of Auckland <i>Effect of dietary zinc supplementation on the gastrointestinal microbiota and host gene expression in a mouse model of autism spectrum disorder</i>	<b>Queenstown &amp; Wakatipu Rm</b>
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>	<b>Queenstown &amp; Wakatipu Rm</b>
5.15pm - 5.30pm	<b>Christian Lux (Q42)</b> University of Auckland <i>Unilateral intervention in the sinuses of rabbits induces bilateral inflammatory and microbial changes</i>	<b>Queenstown &amp; Wakatipu Rm</b>
5.30pm - 6.00pm	<b>Emily Parke (Q43)</b> Victoria University of Wellington <i>Microbiomes and causal explanations</i>	<b>Queenstown &amp; Wakatipu Rm</b>
6.00pm	<b>Conference close</b>	