

**QRW Programme**  
**Genome Data Science**

Thursday 5 September – Friday 6 September, 2019  
Rydges Hotel, Queenstown, New Zealand

<b>Thursday 5 September</b>		
<b>Time</b>	<b>Details</b>	<b>Location</b>
<b>Keynote presentation</b> <b>Chaired by Mik Black (Otago)</b>		
9.00am – 9:10am	<b>Introduction : Mik Black</b> University of Otago	Clancy's rm
9:10am – 10:00am	<b>Murray Cox (G1)</b> <i>Sponsored by MacroGen Oceania</i> Massey University <i>Finishing (small) eukaryotic genomes</i>	Clancy's rm
10.00am-10.30am	<b>Morning Tea</b>	Trade Area
<b>Talks 1</b> <b>Chaired by Joep de Ligt (ESR)</b>		
10.30am-11.10am	<b>Jemma Geoghegan (G2)</b> Macquarie University <i>Revealing the hidden diversity of viruses in fish using meta-transcriptomics</i>	Clancy's rm
11.10am-11.30am	<b>Bede Busby (G3)</b> European Molecular Biology Laboratory <i>The impact of the genetic background on gene deletion phenotypes in Saccharomyces cerevisiae</i>	Clancy's rm
11.30am-11.50pm	<b>Ann Mc Cartney (G4)</b> Manaaki Whenua <i>Genome Assembly Strategies for Endemic New Zealand Species</i>	Clancy's rm
11.50pm-12.10pm	<b>James Boocock (G5)</b> University of California, Los Angeles <i>Ancient balancing selection maintains incompatible versions of a conserved metabolic pathway in yeast</i>	Clancy's rm
12.10pm-12.30pm	<b>Alana Alexander (G6)</b> University of Otago <i>Hologenomics for conservation: a first test of utility using New Zealand's endemic Māui and Hector's dolphins</i>	Clancy's rm
12:30pm-1:30pm	<b>Lunch</b>	Trade Area
<b>Genomics Aotearoa and NeSI</b> <b>Chaired by Mik Black (Otago)</b>		
1.30pm-2:10pm	<b>Ben Te Aika (G7)</b> Genomics Aotearoa <i>Understanding genomic data management – an indigenous perspective of “data protection” and “data sovereignty.”</i>	Clancy's rm

2:10pm-2:30pm	<b>Megan Guidry (G8)</b> New Zealand eScience Infrastructure (NeSI) <i>Raising eResearch Capability in New Zealand</i>	Clancy's rm
2:30pm-2:50pm	<b>Ngoni Faya (G9)</b> Genomics Aotearoa <i>Genomics Aotearoa Training</i>	Clancy's rm
2:50pm-3:30pm	<b>Discussion session: genomic data sovereignty (G10)</b> Ben Te Aika and Mik Black Genomics Aotearoa	Clancy's rm
3:30pm-4:00pm	<b>Afternoon Tea</b>	Trade Area
	<b>Talks 2</b> <b>Chaired by Ngoni Faya (Otago)</b>	
4:00pm-4:25pm	<b>Dini Senanayake (G11)</b> New Zealand eScience Infrastructure (NeSI) <i>NeSI and Genomics: Catering to Domain-Specific High Performance Computing needs</i>	Clancy's rm
4:25pm-4:50pm	<b>Alex Trevarton (G12)</b> The University of Texas MD Anderson Cancer Center <i>Simple combination of multiple variant callers to increase accuracy</i>	Clancy's rm
4:50pm-5:40pm	<b>Poster short talks</b> <i>Each presenter will provide a 5 minute overview of their poster prior to the start of the poster session at 6pm.</i>	Clancy's rm
6:00pm-6:45pm	<b>Poster Session</b> sponsored by Bio-Rad Laboratories	Marquee

<b>Friday 6 September</b>		
<b>Time</b>	<b>Details</b>	<b>Location</b>
<b><u>Keynote presentation</u></b> <b>Chaired by Mik Black (Otago)</b>		
9:10am – 10:00am	<b>Kim Handley (G13)</b> <i>sponsored by Bio-Strategy Ltd</i> University of Auckland <i>Genomics Aotearoa: environmental genomics and the many different pathways to reconstruct microbial ecosystems and environmental adaptations</i>	Clancy's rm
10.00am-10.30am	<b>Morning Tea</b>	Trade Area
<b><u>Talks 3 – Joint Session with Epigenetics</u></b> <b>Chaired by Paul Gardner (Otago)</b>		
10.30am-10.55am	<b>Jiří Moravec (G14)</b> University of Otago <i>Inferring cancer population history from a single-cell sequencing DNA methylation data</i>	Clancy's rm
10.55am-11.10am	<b>Sreemol Gokuladhas (G15)</b> Liggins Institute, University of Auckland <i>Shared regulatory pathways reveal novel genetic correlations between grip strength and neuromuscular disorders</i>	Clancy's rm
11.10am-11.35am	<b>Miles Benton (G16)</b> Institute of Environmental Science and Research (ESR) <i>The Humble Guinea Pig: Cute, Furry and Deserving of a Better Genome Assembly?</i>	Clancy's rm
11.35am-12.00pm	<b>Elsie Jacobson (G17)</b> The Liggins Institute, University of Auckland <i>Hi-C detects novel structural variants in HL-60 and HL-60/S4 cell lines</i>	Clancy's rm
12.00pm-12.30pm	<b>John Pearson (G18)</b> University of Otago, Christchurch <i>Epigenetic impact of cannabis use in the Christchurch Health and Development Study</i>	Clancy's rm
12:30pm-1:30pm	<b>Lunch</b>	Trade Area
<b><u>Talks 4</u></b> <b>Chaired by Jonah Duckles (AbacusBio)</b>		
1.30pm-2.10pm	<b>Joep de Ligt (G19)</b> Institute of Environmental Science and Research (ESR) <i>A System-wide Approach to Monitor Responses to Synergistic BRAF and EGFR Inhibition in Colorectal Cancer Cells</i>	Clancy's rm
2.10pm-2.30pm	<b>Alessandra Santana (G20)</b> Institute of Environmental Science and Research (ESR) <i>A per-sample pathway analysis tool for DNA methylation data</i>	Clancy's rm

2.30pm-2.50pm	<b>Daniel Ho (G21)</b> Liggins Institute, University of Auckland <i>Machine Learning Identifies the Tissue-Specific Effects of SNPs Associated with the Risk of Developing Type 1 Diabetes</i>	Clancy's rm
2.50pm-3.10pm	<b>Jonah Duckles (G22)</b> AbacusBio <i>A Cloud Decoder Ring - Demystifying Cloud Jargon</i>	Clancy's rm
3.10pm-3.30pm	<b>Evgeniia Golovina (G23)</b> Liggins Institute, University of Auckland <i>Decoding the comorbidities between psychiatric disorders and cognitive functions</i>	Clancy's rm
3.30pm-4.00pm	<b>Afternoon Tea</b>	Trade Area
<b><u>Discussion Session</u></b> <b>Chaired by Mik Black (Otago)</b>		
4.00pm-5.00pm	<b>Bioinformatics Community Building</b>	Reds Bar