

QRW Programme

Bioinformatics

Thursday 30 August – Friday 31 August, 2018

Rydges Hotel, Queenstown, New Zealand

Thursday 30 August

Time	Details	Location
Keynote presentation Chaired by Mik Black (Otago)		
9.00am – 9:10am	Introduction: Mik Black <i>sponsored by Maurice Wilkins Centre</i> University of Otago	
9:10am – 10:00am	Nicole Wheeler (B1) Wellcome Sanger Institute <i>AI in healthcare: identifying and understanding superbugs</i>	
10.00am-10.30am	Morning Tea	
Talks 1 Chaired by Donia Macartney-Coxson (ESR)		
10.30am-11.15am	John Grady (B2) Kingshorn Centre for Clinical Genomics <i>refynr2 and Gentian: a bioinformatic platform to enable automated precision cancer genomic medicine trials</i>	
11.15am-11.45am	Miles Benton (B3) Environmental Science and Research <i>A Customisable Analysis Pipeline for Identification of Clinically Relevant Genetic Variants in Next Generation Sequencing Data</i>	
11.45am-12.15pm	Tim Millar (B4) Plant and Food Research <i>Flexible Visualizations for Genome-Scale Genetics with HoloViews</i>	
12.00pm-12.30pm	Jenny Draper (B5) Environmental Science and Research <i>Investigating a multi-species antibiotic-resistant infection using MinION sequencing</i>	
12:30pm-1:30pm	Lunch	
Genomics Aotearoa Chaired by Peter Dearden (Otago)		
1.30pm-1.50pm	Peter Dearden (B6) University of Otago <i>Genomics Aotearoa: Aiming to improve the use of genomics in New Zealand</i>	
1.50pm-2.10pm	Mik Black (B7) University of Otago	

	<i>Genomics Aotearoa – bioinformatics as underpinning infrastructure for genomics research in New Zealand</i>	
2.10pm-2.30pm	Rudiger Brauning (B8) AgResearch <i>The Primary Production theme within Genomics Aotearoa</i>	
2.30pm-2.50pm	David Waite (B9) University of Auckland <i>Genomics Aotearoa and the Environmental metagenomics subprogram: Pilot study in the Puarenga stream</i>	
2.50pm-3.30pm	Ben Te Aika (B10) University of Otago <i>Cultural Considerations When Working with the Genomes of Taonga Species</i>	
3.30pm-4.00pm	Afternoon Tea	
	Talks 2 Chaired by Aniruddha Chatterjee (Otago)	
4.00pm-4.25pm	Shane Sturrock (B11) Scion <i>Pinus radiata genome assembly</i>	
4.25pm-4.50pm	Nooriyah Lohani (B12) New Zealand eScience Infrastructure <i>Why NeSI is attending a Bioinformatics meeting</i>	
4.50pm-5.30pm	Poster short talks <i>Each presenter will provide a 5 minute overview of their poster prior to the start of the poster session at 6pm.</i>	
5.30pm-6.30pm	Social Mixer with drinks and nibbles <i>sponsored by Merck & pH Scientific</i>	

Friday 31 August		
Time	Details	Location
<u>Keynote presentation</u> Chaired by Donia Macartney-Coxson (ESR)		
9:10am – 10:00am	Nadia Davidson (B13) Murdoch Children’s Research Institute <i>Doing it in the dark: Methods for analysing and visualising transcriptomes without a reference genome</i>	
10.00am-10.30am	Morning Tea	
<u>Talks 3</u> Chaired by Mik Black (Otago)		
10.30am-11.20am	Dennis McNevin (B14) University of Technology Sydney <i>From forensic genotype to forensic phenotype</i>	
11.20am-12.10pm	SallyAnn Harbison (B15) Environmental Science and Research <i>Challenges and opportunities in transforming Forensic DNA genotyping to massively parallel sequencing technology</i>	
12.10pm-12.30pm	Alexander Liu (B16) University of Auckland <i>Machine learning methods in the analysis of forensic sequencing data</i>	
12:30pm-1:30pm	Lunch	
<u>Talks 4</u> Chaired by Miles Benton (ESR)		
1.30pm-2.00pm	Aniruddha Chatterjee (B17) University of Otago <i>Striking loss of global DNA methylation levels and constitutive PD-L1 expression in melanoma</i>	
2.00pm-2.30pm	Zuyu Yang (B18) Environmental Science and Research <i>Multi-omics Analysis in Primary Cell Culture Models Reveals the Genetic and Epigenetic Basis of Phenotypic Diversity within Tumors</i>	
2.30pm-3.00pm	Priyanka Sinha (B19) University of Otago, Christchurch <i>Gene expression effects of sodium valproate in a serotonergic cell line</i>	
3.00pm-3.30pm	David Eccles (B20) Mallaghan Institute <i>Investigating Repetitive Sequences in Ultra-long Nanopore Reads</i>	
3.30pm-4.00pm	Afternoon Tea	
<u>Discussion Session</u> Chaired by Mik Black (Otago)		
4.00pm-5.00pm	Bioinformatics Community Building	