

Genomics Satellite

Sunday 27 August – Monday 28 August, 2023
Rydges Hotel, Queenstown, New Zealand

Sunday 27 August

Time	Details	Location
8.30am- 8.45am	QRW Mihi Whakatau	Queenstown Rm
Innovations & Advancements (part 1) Chaired by David Chagné (Plant & Food Research / Genomics Aotearoa).		
8.55am-9.00am	Introduction: David Chagné Plant & Food Research / Genomics Aotearoa <i>Sponsored by Mediray NZ Ltd</i>	Clancy's Rm
9.00am-10.00am	Arang Rhie G1 National Human Genome Research Institute NIH <i>Beyond one T2T human genome: What's next?</i>	Clancy's Rm
10.00am-10.30am	Morning Tea	Trade Area
10.30am-10.55am	Benjamin Halliday G2 University of Otago <i>Detection and Mitigation of Microbiome DNA Presence in Saliva-Derived Whole Genome Sequence Data</i>	Clancy's Rm
10.55am-11.10am	Astra Heywood G3 Plant & Food Research <i>MapQsee—Improving Visualisation of Sequence Read Mapping</i>	Clancy's Rm
11.10am-11.35am	Rachel Jaros G4 University of Auckland <i>COVID-19 risk variant associations with chromatin remodelling, DNA maintenance and surfactant genes are infection dependent in the lung</i>	Clancy's Rm
11.35am-11.50am	Usman Rashid G5 Plant & Food Research <i>AssemblyQC: A reproducible best-practices NextFlow pipeline for assessment of assembly quality</i>	Clancy's Rm
11.50am-12.30pm	Panel Discussion: Innovations & Advancements Arang Rhie, Benjamin Halliday, Astra Heywood, Rachel Jaros and Usman Rashid Chaired by Tammy Steeves (University of Canterbury)	Clancy's Rm
12.30pm-1.30pm	Lunch	Trade Area
Innovations & Advancements (part 2) Chaired by William Schierding (University of Auckland). <i>Sponsored by Australian Genome Research Facility</i>		
1.30pm-1.55pm	Ting-Hsuan Chen G6 Plant & Food Research <i>Evolutionary dynamics of transposable elements in Actinidia species</i>	Clancy's Rm
1.55pm-2.20pm	Alexandra Gavryushkina G7	Clancy's Rm

	University of Canterbury <i>Phylogenetic analysis of single-cell RNA-seq expression data</i>	
2.20pm-2.35pm	Yusmiati Liau G8 Bragato Research Institute <i>Nanopore methylation sequencing in a non-model plant species</i>	Clancy's Rm
2.35pm-2.50pm	Nicholas Pudjihartono G9 University of Auckland <i>Network analysis uncovers gene-regulatory intersections between juvenile arthritis and comorbid traits.</i>	Clancy's Rm
2.50pm-3.00pm	Lightning talks	Clancy's Rm
	Natasha Berthold G10 University of Otago <i>Finding new ways forward: Nanopore sequencing as a novel method of characterising anorexia nervosa associated genetics</i>	Clancy's Rm
	Fenella Deans G11 LIC <i>Changes in frequency of beneficial and deleterious variants in New Zealand dairy cattle</i>	Clancy's Rm
	Reece Joseph G12 University of Auckland <i>Paediatric acute haematogenous osteomyelitis: Identification of bacterial genes and phenotype that predispose to adverse health outcomes</i>	Clancy's Rm
	Hermes Perez G13 ESR <i>Pangenome Graph for Comprehensive Surveillance of Plasmids Conferring Antimicrobial Resistance in Aotearoa New Zealand</i>	Clancy's Rm
3.00pm-3.30pm	Coffee Break	Trade Area
3.30pm-3.45pm	Sarah Bailey G14 Plant & Food Research <i>Benchmarking workflow for evaluating the performance of structural variant callers on non-model species genomes</i>	Clancy's Rm
3.45pm-4.10pm	Jana Wold G15 University of Canterbury <i>Improving foundational genomic resources for informed conservation strategies in a critically endangered parrot</i>	Clancy's Rm
4.10pm-4.35pm	Chen Wu G16 Plant & Food Research <i>Progress in pan-graph construction from large and complex plant genomes</i>	Clancy's Rm
4.35pm-5.00pm	Zoe Yang G17 ESR	Clancy's Rm

	<i>Pangenome Graphs in Infectious Disease: A Promising and Practical Implementation for Comprehensive Genetic Variation Analysis</i> <i>Sponsored by Abacus dx</i>	
5.00pm-5.30pm	Round table discussion	Clancy's Rm
5.30pm-6.30pm	Evening Social Function <i>Sponsored by Decode Science</i>	Trade Area

Monday 28 August		
Time	Details	Location
Impact & Applications (part 1) Chaired by Catherine Collins (University of Otago).		
8.55am-9.00am	Introduction: Catherine Collins University of Otago	Clancy's Rm
9.00am-10.00am	Alex Brown G18 ANU TKI <i>Empowering Indigenous Communities in Genomics – the Australian Alliance for Indigenous Genomics (ALIGN).</i> <i>Sponsored by Oxford Nanopore Technologies</i>	Clancy's Rm
10.00am-10.30am	Morning Tea	Trade Area
10.30am-10.45am	Sebastian Alvarez-Costes G19 University of Otago <i>Reference genomes, genome-wide heterozygosity, and historical demography of Hector's (Cephalorhynchus hectori hectori) and Māui (Cephalorhynchus hectori maui) dolphins.</i>	Clancy's Rm
10.45am-11.00am	Julie Bloomaert G20 Plant & Food Research <i>A high-quality genome assembly improves the detection of genetic variants in a wide-ranging marine teleost</i> <i>Sponsored by Decode Science</i>	Clancy's Rm
11.00am-11.25am	Claudia Bramley and Jorgia Knight G21 University of Canterbury <i>Giving effect to Te Tiriti o Waitangi in the emerging field of chromosomics</i>	Clancy's Rm
11.25am-11.50am	Magdalena Ratajska G22 University of Otago <i>Early detection of lung cancer and identification of potential molecular targets for novel therapies via genetic and epigenetic screening</i>	Clancy's Rm
11.50am-12.30pm	Panel Discussion: Impacts & Applications Alex Brown, Sebastian Alvarez-Costes, Julie Bloomaert, Claudia Bramley, Jorgio Knight, Magdalena Ratajska Chaired by Tammy Steeves (University of Canterbury)	Clancy's Rm
12.30pm-1.30pm	Lunch	Trade Area

Impact & Applications (part 2)
Chaired by David Winter (ESR).

1.30pm-1.45pm	Te-Yuan Chyou G23 University of Otago <i>Detecting non-coding genes in mushroom and truffle-like fungal genomes</i>	Clancy's Rm
1.45pm-2.10pm	Erin Delargy G24 University of Otago <i>Time to grow up: Validation of the timer-gene hypothesis in the honeybee</i>	Clancy's Rm
2.10pm-2.35pm	Swati Jivanji G25 Livestock Improvement Corporation <i>Discovery and validation of large-effect recessive variants in New Zealand dairy cattle</i>	Clancy's Rm
2.35pm-2.50pm	Olivia Yugovich G26 ESR University of Auckland <i>Evaluation of Loop Mediated Isothermal Amplification (LAMP) for the identification of endangered species common to the illegal wildlife trade.</i>	Clancy's Rm
2.50pm-3.00pm	Lightning talks	Clancy's Rm
	Marc Bailie G27 University of Otago <i>Advancing aquacultural aspirations through genomic sequencing</i>	Clancy's Rm
	Gemma Collins G28 Manaaki Whenua – Landcare Research <i>Genome sequencing of New Zealand stick insects for understanding phylogeny and the evolution of asexual strategies</i>	Clancy's Rm
	Te Whetu Aarahi Kerekere G29 University of Otago <i>Nanopore Sequencing of the Pharmacogene CYP2C19 in a Ngāti Porou Hauora Cohort</i>	Clancy's Rm
	Juan Carlos Meza Alvarado G30 Massey University <i>Vascular endothelial growth factor A polymorphisms impacting patient survival</i>	Clancy's Rm
	Anthony Venon G31 Université Paris Saclay <i>Transposable element copy variation in cultivated apples, and their wild apple relatives</i>	Clancy's Rm
3.00pm-3.30pm	Coffee Break	Trade Area
3.30pm-3.55pm	Rebecca Clarke G31 AgResearch <i>Structural Variation in NZ sheep – identification to implementation</i>	Clancy's Rm
3.55pm-4.20pm	Amy Osborne G32 University of Canterbury	Clancy's Rm

	<i>Prenatal cannabis exposure alters offspring DNA methylation at genes involved in schizophrenia and neurodevelopment, across the life course</i>	
4.20pm-4.45pm	Michael Pudjihartono G33 University of Auckland <i>Network Analysis Links Melanoma Germline Risk Loci to Somatic Driver Genes Through Novel Genetic Pathways</i>	Clancy's Rm
4.45pm-5.30pm	Round table discussion	Clancy's Rm
6.00pm-7.00pm	Nobel Laureate Lecture – Professor David Julius University of California San Francisco <i>Gut feelings: Probing mechanisms of visceral pain</i> <i>Sponsored by University of Otago</i>	Queenstown Rm
7.00pm-9.00pm	Fashionomics and Evening Social Function <i>Sponsored by Thermo Fisher Scientific</i>	Trade Area