

9:00 am -	Welcome and Opening	Peter Williamson
9:10 am		Rautaki Hononga / Kaitakawaenga (Māori
		Strategic Framework Facilitator)
		r i Di 1 11
		Louise Bicknell
		Co-Director Genetics Otago
Session On	e	Chair:
9:10 am –	A long non-coding RNA differentially regulates	Indranil Basak
9:30 am	neuronal health	Department of Biochemistry
9:30 am –	CYP2D6*71 is a poor metaboliser allele common	Martin Kennedy
9:45 am	in Polynesian and Māori people and absent from	Department of Pathology and Biomedical
	Europeans	Science, Christchurch
9:45 am –	What Really Drives Bioinformatic Tool	Paul Gardner
10:00 am	Accuracy?	Department of Biochemistry
10:00 am –	ATP13A2-inhibited astrocytes model early-onset	Luke Geddes
10:15 am	Parkinson's pathologies in vitro	Department of Biochemistry

SciCom Awa	ard Presentations	Chair:
	What fraction of the genome is functional? <i>Illustration</i>	Daniela Schiavinato, DJ Champion, Paul P. Gardner
	The pāua that clings to the sea': a new species of abalone found only in waters off a remote NZ island chain <i>Article</i>	Kerry Walton, Hamish Spencer, Nic Rawlence
	Are kiwi and moa recent immigrants from Australia? Neither fossils nor genetic evidence support the story <i>Article</i>	Nic Rawlence, Alan Tennyson, Pascale Lubbe
	Predicting 'male-time' with the Androgen Clock <i>Video</i>	Victoria Sugrue
	Why study the rarest form of Parkinson's disease? <i>Video</i>	Luke Geddes, Indranil Basak and Eden Li
10:30 am – 11:00 am Break (SciCom Award People's Choice Voting)		

Session Two	) (	Chair:
11:00 am –	Bacterial lipopolysaccharide modulates	Rachel Purcell
11:20 pm	methylation in colorectal cancer	Department of Surgery, Christchurch
11:20 pm –	Lightning Talks	
12:00 pm	(6 mins each including Q+A)	
	3D Perspectives on Spatiotemporal HOX Gene Expression from the Native Onychophoran, <i>Peripatoides Novaezealandiae</i>	<b>Taylor Gallagher</b> Department of Biochemistry
	A Hot New Biomarker Has Entered the Villa: Modelling the effect of DNA amount in CRC Detection Assays on Downstream Sequencing Metrics	<b>Ruby Werry</b> Department of Biochemistry
	Outcomes from a Nationwide Bioinformatics Training Programme: Reflecting and Looking Ahead	<b>Tyler McInnes</b> Genomics Aotearoa
	Unravelling the role of large genome deletions (LGD) in drug-resistant <i>Mycobacterium</i> <i>tuberculosis</i> isolates	<b>Abraham Siaw</b> Department of Microbiology and Immunology
	Building the Androgen Clock: An Epigenetic Predictor of Long-term Male Hormone Exposure	<b>Victoria Sugrue</b> Department of Anatomy
	A Comparison of Progeny of Selected and Unselected Sires within the Setting of a Community-Based Breeding Programme Catering to Women Smallholder Goat Rearers in Bihar, India	Shalini Abeykoon AbacusBio Ltd.

12:00 pm –	Unravelling the Secrets of Chordate Whole-Body	Megan Wilson
12:15 pm	Regeneration using single-cell sequencing	Department of Anatomy
12:15 pm –	Understanding the genetics and epigenetics of	Warren Tate
12:30 pm	the post-viral fatigue syndromes, Myalgic	Department of Pathology
	Encephalomyelitis / Chronic Fatigue Syndrome,	
	and Long COVID	
12:30 pm – 1:30 pm Lunch (poster judging)		

Session Thre	ee	Chair:
1:30 pm –	TBC	Peter Dearden
2:30 pm		Department of Biochemistry and Genomics
_		Aotearoa
2:30 pm –	Loss of aminoarabinose lipid modification leads	Maddie Hardie Boys
2:45 pm	to cephalosporin antibiotic resistance in	Department of Microbiology and
	Pseudomonas aeruginosa	Immunology
2:45 pm –	Thermal resilience in the endemic triplefins of	Sheri Johnson
3:00 pm	New Zealand	Department of Zoology
3:00 pm – 3:30 pm Break		

Session Fou	ır	Chair:
3:30 pm –	Roll-over dogma: female specific ribosomes and	Tim Hore
3:50 pm	sex determination	Department of Anatomy
3:50 pm –	Missing Heritability in Heart Failure: Don't	Gemma Moir-Meyer (via Zoom)
4:05 pm	Sweat the Small Stuff?	Department of Medicine, Christchurch
4:05 pm –	Defining therapeutic vulnerabilities in drug-	Matt McNeil
4:20 pm	resistant strains of Mycobacterium tuberculosis	Department of Microbiology and
		Immunology
4:20 pm –	Evolving vertebral counts without evolving the	Shannon Taylor
4:35 pm	segmentation clock	University of Oxford
4:35 pm –	Awards Presentation	Louise Bicknell
4:45 pm		Co-Director Genetics Otago
4:45 pm Close		

## **Poster Presentations**

Poster Number	Title	Presenting Author
1	Understanding drivers of metastasis to develop better treatments for oestrogen receptor positive breast cancer	Sophie Tunnicliffe
2	Liquid biopsy based DNA methylation biomarker panel for facilitating minimally invasive prostate cancer detection	Atreyi Dutta
3	Development of a Prognostic Tool for Identifying High-Risk Prostate Cancer Patient	Zahra Shafaei Pishabad
4	Exploring the link between Infertility and Ovarian Cancer	Bridget Fellows
5	Role of the TP53 Splice Mutations in cancer progression	Apeksha Bhandarkar
6	Predicting Functional Genomic Features	Daniela Schiavinato
7	Exploring the disease mechanism caused by variants in histone H4	Tira McLachlan
8	Exploring Mendelian-informed genetic variants for their potential to alter cancer risk using the UK Biobank	Emily Nielsen Dandoroff
9	Pathogenicity and Interactions of ORC3	Mykilah O'Sullivan
10	A Genetic Characterisation of Myalgic Encephalomyelitis/Chronic Fatigue Syndrome Predisposition	Bryn Griffiths
11	Targeting oncogenic lncRNAs in colorectal cancer- associated macrophages	Brooke Morrison
12	Molecular characterisation of novel <i>de novo</i> variants in <i>ELAVL2</i>	Meghan Mulligan
13	Developing a blood-based epigenomic signature for ME/CFS and Long COVID using Peripheral Blood Mononuclear Cells (PBMCs)	Sayan Sharma
14	Prioritisation of Māori and Pacific Gout-Associated Non-Coding Genetic Variants Using Enhancer Assays	Selina Williams