Tuesday 20th

09:30 - 10:00	Registration			
10:00 - 10:30	Welcome & Housekee	eping (Phil Wilcox & Matt Bixley)		
	Primary sector: genotyping (chair: Andrew Hess)			
10:30 - 11:00	Chad Harland	Invited talk: Rate of de novo mutation in dairy cattle and potential impact of reproductive technologies		
11:00 - 11:15	Susan Thomson	Clever culling for better breeding strategies		
11:15 - 11:30	Melanie Hess	High-throughput sequencing pipeline for metagenome profiling		
11:30 - 11:45	David Chagné	Genome analysis for differentiating mānuka provenances		
		Development of a 10k Exome Capture Array and Application for		
11:45 - 12:00	John McCallum	Linkage Mapping and Disequilibrium Studies in <i>Actinidia</i> Breeding Populations		
	Aisling Rayne	·		
12:00 – 12:20	Kathryn McRae	Lightning talks		
12.00 - 12.20	Natalie Graham	Lightning tarks		
	Marissa Le Lec			
12:20 – 13:20	Lunch			
Methodology advances in statistical genetics (chair: Phil Wilcox)				
		Comparing estimates of inbreeding and breed composition using		
13:20 - 13:50	Benoit Auvray	genomic relationship matrices and machine learning methods for a		
		range of SNP densities in a simulated sheep population		
13:50 - 14:05	Ken Dodds	A depth-adjusted F _{ST} calculation for low-depth sequencing data		
14:05 - 14:20	Rachel Ashby	GBSathon: Evaluating GBS analysis workflows by comparison with SNP chip and pedigree data		
14:20 - 14:35	Timothy Bilton	Constructing genomic relationship matrices for autopolyploid species using sequencing data		
14:35 - 14:50	Chandan Pal	Discovery of new viruses from complex sequence datasets		
14:50 - 15:20	Afternoon tea			
Ecosystem genomics (chair: Jeanne Jacobs)				
		Substantial sex-differences in recombination in hihi (Notiomystis		
15:20 - 15:50	Anna Santure	cincta), a threatened New Zealand passerine with high levels of sexual conflict		
		Critical first steps towards building resilience in a critically endangered		
15:50 – 16:05	Levi Collier-Robinson	New Zealand freshwater endemic		
10.05 10.05	Danes Massas	Assembling the Kekewai (Paranephrops zealandicus) Genome Using		
16:05 - 16:35	Roger Moraga	Cloud Compute Infrastructure		
16:35 – 16:50	Alana Alexander	Differential movement of song, morphology, and genes across the black-capped/Carolina chickadee hybrid zone in Missouri		
16:50 – 17:05	Nick Sumpter	Hybrid Assembly of the Chytrid Genome – Insights into the Evolution and Outbreak of a Major Amphibian Pathogen		
17:05 - 17:15	Jana Wold	Lightning talks		
10.20	Dinner	Harboureido Grill 19 Ervett St. Dunadia		
18:30	חווווכו	Harbourside Grill, 18 Fryatt St, Dunedin		

Wednesday 21st

	Keynote (chair: Shannon Clarke)		
09:30 - 10:30	Steve Horvath	Epigenetic aging clocks for mammals	
10:30 - 11:00	Morning tea		
	Epigenetics and functional genomics (chair: Shannon Clarke)		
11:00 – 11:15	John Mackay	Sampling and testing for American Foulbrood in bees using novel eDNA and multi-target qPCR methods	
11:15 – 11:30	Alex Noble	Genomic effects of cannabis use: validating a high throughput methylation array	
11:30 – 11:45	Andrew Cridge	Using environmental DNA to identify and monitor new plant incursions into New Zealand	
11:45 – 12:00	Margaret Carpenter	Transcriptomic and metabolomic profiling of the potato plant response to zebra chip disease	
12:00 - 12:15	Mary Hawkes Alex Caulton	Lightning talks	
12:15 - 13:30	Lunch		
	Primary sector: breeding (chair: Melanie Hess)		
13:30 - 13:45	Nahla Bassil	Invited talk: Black Spot Resistance Gene Characterization and Mapping in Polyploid Roses	
13:45 - 14:00	Jaroslav Klápště	Multi-environment single-step evaluation of radiata pine progeny test using exome capture - GBS genotyping platform	
14:00 - 14:15	Ahmed Ismael	Genetic variation of water use efficiency of radiata pine under drought stress	
14:15 – 14:30	Lucy Egan	The identification of population-specific patterns in breeding programmes of <i>Trifolium repens</i> and <i>Trifolium pratense</i>	
14:30 - 14:45	Michael Lee	National Evaluations of multiple breeds in NZ using single step GBLUP	
14:45 – 15:30	Afternoon tea		
15:30 – 16:00	Mihi Whakatau		
	Indigenous Health Ge	Indigenous Health Genomics (chair: Phil Wilcox)	
16:00 - 17:40	Speakers: Joe Yracheta, Irene Kereama-Royal, Karyn Paringatai, Phillip Wilcox and Stephen Robertson. See dedicated handout for schedule		