Tuesday 20 th		
09:30 - 10:00	Registration	
10:00 - 10:30	Welcome & Housekeeping (Phil Wilcox & Matt Bixley)	
	Primary sector: genotyping (chair: Andrew Hess)	
10:30 - 11:00	Nahla Bassil	<u>Invited talk</u> : Black Spot Resistance Gene Characterization and Mapping in Polyploid Roses
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
	David Chagné	Genome analysis for differentiating mānuka provenances
	John McCallum	Development of a 10k Exome Capture Array and Application for Linkage Mapping and Disequilibrium Studies in <i>Actinidia</i> Breeding Populations
12:00 - 12:20	Aisling Rayne Kathryn McRae Natalie Graham Marissa Le Lec	Lightning talks
12:20 - 13:20	Lunch	
Methodology advances in statistical genetics (chair: Phil Wilcox)		
13:20 - 13:50	Benoit Auvray	Comparing estimates of inbreeding and breed composition using 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)	
15:20 - 15:50	Anna Santure	Substantial sex-differences in recombination in hihi (<i>Notiomystis cincta</i>), a threatened New Zealand passerine with high levels of sexual conflict
15:50 - 16:05	Levi Collier-Robinson	Critical first steps towards building resilience in a critically endangered New Zealand freshwater endemic
16:05 - 16:35	Roger Moraga	Assembling the Kekewai (<i>Paranephrops zealandicus</i>) Genome Using 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

Harbourside Grill, 18 Fryatt St, Dunedin

18:30

Dinner

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 function	onal 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	
	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	ng (chair: Melanie Hess)	
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