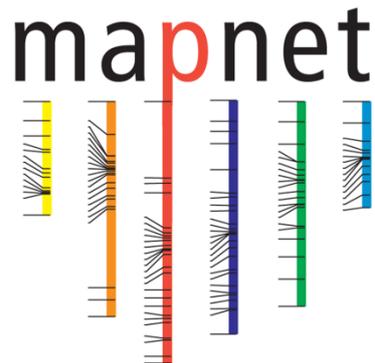


# 11<sup>th</sup> Annual Meeting



1-2 Sept 2016, Nelson, New Zealand

PROGRAMME DAY 1		
Thursday Sept 1	From	To
Registration – Maitai Foyer	7.45am	8.15am
Welcome – Wairau Room	8.15am	8.30am
<b>Session 1 – Microbial Genetics – Wairau Room</b> Chair: Donia Macartney-Coxson	With thanks to our session sponsor:	
		
1. Heather Hendrickson, Massey University – Predicting routes of horizontal gene transfer using completely sequenced genomes	8.30am	9.05am
2. Justin O’Sullivan, University of Auckland, sponsored by Thermo Fisher Scientific– The <i>Escherichia coli</i> nucleoid: an organized structure that is shaped by replication and transcription.	9.05am	9.30am
3. Una Ren, ESR, sponsored by Scimed – PacBio methylome sequencing of <i>Neisseria meningitidis</i> – potential associations with disease	9.30am	9.55am
<b>Morning tea – Maitai 1</b>	9.55am	10.25am
<b>Session 2 – Statistical Genetics – Wairau Room</b> Chairs: Tony Merriman and David Chagné	With thanks to our session sponsor:	
		
4. Heather Cordell, University of Newcastle, UK - Causal modeling of relationships between genotype and phenotype using multi-omics data	10.25am	11.15am
5. Karl Broman, University of Wisconsin – R/qt12: System genetic analysis in multi-parent populations	11.15am	12.05pm
6. Wenhua Wei, University of Otago – Variance GWAS identifies a non-additive locus <i>DHCR7</i> in seronegative rheumatoid arthritis	12.05pm	12.25pm
7. Nick Burns, University of Otago - Interactive exploration of genome-scale datasets (Submitted abstract)	12.25pm	12.35pm
<b>Working Lunch – MapNet Community Forum – Wairau Room</b>	12.35pm	1.30pm

**Session 3 – Ecological Genetics – Wairau Room**

With thanks to our session sponsor:

Chair: Thomas Buckley

**NEW ZEALAND'S  
BIOLOGICAL  
HERITAGE**Ngā Koiora  
Tuku Iho

8. Brad Shaffer, University of California LA, sponsored by NeSI, NZGL & REANNZ - Conservation genomics	1.30pm	2.20pm
9. Bruce Robertson, University of Otago – Kakapo genome	2.20pm	2.50pm
10. Stephanie Galla, University of Canterbury – Bird conservation genomics	2.50pm	3.10pm
11. Helen Taylor, University of Otago - Assembling the South Island robin genome to understand inbreeding depression: the pitfalls of <i>de novo</i> assembly faced by ecological geneticists (Submitted abstract)	3.10pm	3.25pm
12. Erica Todd, University of Otago - Whole-transcriptome profiling of flexible sexual phenotypes in a model sex-changing fish, the bluehead wrasse (Submitted abstract)	3.25pm	3.40pm

**Afternoon tea – Maitai 1**

3.40pm

4.00pm

**Session 4 – Aquaculture Genetics – Wairau Room**

With thanks to our session sponsors:

Chair: Shannon Clarke and Maren Wellenreuther



13. James Kijas, CSIRO – Genetic diversity in Tasmanian Atlantic Salmon and prospects for GWAS and genomic prediction	4.00pm	4.40pm
14. Steve Bird, Waikato University – Genomes, gene discovery and fish immunity	4.40pm	5.10pm
15. Rachael Ashby, University of Otago/AgResearch – Making a splash: using genomics to aid the New Zealand aquaculture industry	5.10pm	5.30pm
16. David Ashton, Plant and Food Research - Phenotyping and genomic resources for domestication of the marine finfish snapper ( <i>Chrysophrys auratus</i> )	5.30pm	5.50pm

**Poster Session – Maitai 2**

6.00pm

7.30pm

**Dinner – Deville**

7.30pm

10.00pm

With thanks to



**PROGRAMME DAY 2****Friday 2 September**

**Session 5 – New Technologies in Plant Genetics shared with Plant Satellite – Waimea Room**

**Chair:** Jeanne Jacobs

With thanks to our session sponsor:



**Pastoral Genomics**

17. Charles Brummer, University of California, Davis – Genomics assisted yield improvement in alfalfa - Are we making more hay?	8.30am	9.10am
18. David Chagné, Plant and Food Research, sponsored by Thermo Fisher Scientific – Manuka genome assembly using chromosome conformation capture Hi-C analysis	9.10am	9.30am
19. Jaroslav Klapšte, Scion – Genotyping-by-sequencing platform to recover genetic relatedness	9.30am	9.50am
20. Nick Roberts, AgResearch – Predicting the future of C3 plants using a modified small structural protein	9.50am	10.10am

**Morning tea – Maitai 1**

10.10am

10.45am

**Session 6 – Diabetes Genetics Maurice Wilkins Centre shared session – Maitai 2**

**Chair:** Rinki Murphy and Peter Shepherd



**MAURICE WILKINS CENTRE**  
FOR MOLECULAR BIODISCOVERY

With thanks to our session sponsors:

**Thermo Fisher**  
**SCIENTIFIC**

21. Steve McGarvey, Brown University – Identification of a new obesity gene in the Samoan population	10.45am	11.30am
22. Tony Merriman, University of Otago, sponsored by NeSI, NZGL & REANNZ – Identification of biologically informative uncommon genetic variants in urate control by resequencing in extreme phenotype	11.30am	11.50am
23. Rinki Murphy, University of Auckland - Insulin resistance and diabetes - insights from monogenic causes	11.50am	12.10pm
24. George Taiaroa, University of Otago – The dynamic and hypervariable nature of <i>LPA</i> (Submitted abstract)	12.10pm	12.25pm
25. Matt Bixley, University of Otago - Inbreeding depression in Eastern and Western Polynesians and metabolic disease (Submitted abstract)	12.25pm	12.40pm

**Lunch – Maitai 1**

12.40pm

1.30pm

**Session 7 – Animal Genetics - Wairau**  
sponsor:

**Chair:** Shannon Clarke

With thanks to our session



26. James Kijas, CSIRO – SheepGenomesDB used to identify genomic features impacted by domestication and selection	1.30pm	2.10pm
27. Chris Couldrey, Livestock Improvement Corporation – Sequence variation currently not utilized in genomic selection of New Zealand dairy cattle	2.10pm	2.40pm
28. Suzanne Rowe, AgResearch – High-density genotyping of the New Zealand sheep industry	2.40pm	3.10pm
29. Alan Seal, Plant and Food Research– Genomic analysis of a high vitamin C trait in <i>Actinia</i> hybrids (Submitted abstract)	3.10pm	3.25pm
30. Sarah Bowden, University of Otago - CpG DNA hypomethylation occurs in human Autosomal Dominant Polycystic Kidney Disease (Submitted abstract)	3.25pm	3.40pm
31. Phillip Wilcox, University of Otago - Old challenges made harder: optimising linkage map construction in the modern genomics era (Submitted abstract)	3.40pm	3.55pm
<b>Afternoon tea and close – Maitai 1</b>	4.00pm	