

<p>QRW Programme Advances in Marine Biology and Aquaculture Thursday 30 August – Friday 31 August, 2018 Rydges Hotel, Queenstown, New Zealand</p>
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Thursday 30 August		
Time	Details	Location
Session 1: Consequences of domestication Chaired by Maren Wellenreuther (Plant and Food Research & Auckland University)		
8.55 – 9.00	Welcome and Introduction	
9.00 – 10.00 60 min	Kerry Naish (MB1) School of Aquatic and Fishery Sciences, University of Washington, USA <i>'Two sides of the same coin: promoting or avoiding the evolutionary consequences of domestication in marine aquaculture'</i>	
10.00-10.30	Morning Tea	Trade Area
Session 2: Aquaculture and wild fisheries Chaired by Peter Ritchie (Victoria University)		
10.30-11.00 30 min	Jane Symonds (MB2) Cawthron Institute, Nelson New Zealand aquaculture breeding and genomics, progress and opportunities for three flagship species	
11.00-11.15 15 min	Peter Morisson-Whittle (MB3) Plant and Food Research <i>'Sexually dimorphic recombination frequencies in New Zealand snapper (Chrysophrys auratus)'</i>	
11:15-11:45 30 min	Mark Lokman (MB4) Department of Zoology, University of Otago <i>'A review of recent advances in reproductive technologies of fish: the dawn of a new era?'</i>	
11.45-12.00 15 min	Yvan Papa (MB5) University of Victoria <i>'A whole genome-level analysis of New Zealand tarakihi stock structure (Nemadactylus macropterus)'</i>	
12.00-12.30 30 min	Megan Wilson (MB6) Department of Anatomy, Otago University <i>'Studying whole body regeneration and evolution in marine chordates'</i>	
12.30-13.30	Lunch	Trade Area
Session 3: Social license (joint with Plant Biology & Applied Genetic Technologies) Chaired by Revel Drummond (Plant and Food Research)		
13.30-13.45 15 min	Barry Scott (MB7) Massey University, Royal Society of New Zealand <i>The implications of gene editing technology for New Zealand</i>	
13.45-14.15 30 min	Julie Everett-Hincks (MB8) University of Otago <i>Gene editing in Aotearoa - legal considerations</i>	

14.15-14.30 15 min	Maui Hudson (MB9) University of Waikato <i>Social License or Cultural License: Is there a difference?</i>	
14.30-14.45 15 min	Jim Sinner (MB10) Cawthron Institute, Nelson <i>Social license in the marine environment: Dissecting the discourse</i>	
14.45-15.00 15 min	Damien Mather (MB11) University of Otago <i>Conflicts between agricultural and tourism sectors: evidence for solutions</i>	
15.00-15.15 15 min	Timothy Strabala (MB12) Environmental Protection Authority <i>The regulation of GMOs in New Zealand</i>	
15.15-15.30 15 min	Mariska Wouters (MB13) MfE <i>Gene editing technologies: how they fit in New Zealand's policy framework</i>	
15.30-16.00	Afternoon Tea	Trade Area
Session 4: Genomic selection and breeding (joint with Applied Genetic Technologies) Chaired by Jane Symonds		
16.00-16.30 30 min	Dorian Garrick (MB14) Massey University <i>Genomic Selection for Improvement of Populations</i>	
16.30-16.50 20 min	Fiona Hely (MB15) AbacusBio Ltd <i>Optimised selection strategies in New Zealand aquaculture breeding schemes</i>	
16.50-17.10 20 min	Shannon Clarke (MB16) AgResearch <i>Delivering genomic solutions to New Zealand's biological economy</i>	–
17.10-17.25 15 mins	Noemie Valenza-Troubat (MB17) Plant and Food Research, & Victoria University <i>'Genomics of New Zealand trevally: identifying the genetic basis of quantitative traits to inform a newly developed breeding programme'</i>	
17.30- 18.30	Poster session Social Mixer with drinks and nibbles sponsored by pH Scientific and Merck	Trade Area
19.30-onwards	Joint Dinner at Winnies (joint with Applied Genetic Technologies)	Winnies, 7-9 The Mall Queenstown

Friday 31 August		
Time	Details	Location
Session 5: Ancient DNA Chaired by Michael Knapp (Otago University)		
9.00am - 9.10am	Welcome and Introduction	
9.10am - 10.00am	<i>Sponsored by Plant and Food Research</i> Plenary lecture: Andrew Foote (MB18) Molecular Ecology and Fisheries Genetics Laboratory, School of Biological Sciences, Bangor University, UK <i>'The genetic consequences of past climate change on marine mammals inferred from ancient DNA and genomics'</i>	
10.00am-10.30am	Morning Tea	Trade Area
Session 6: Ancient DNA, Environmental DNA and Biomonitoring Chaired by Nic Rawlence (Otago University)		
10.30am-11.00am 30 mins	Neil "Nessie" Gemmell (MB19) <i>sponsored by Ngaio Diagnostics</i> Department of Anatomy, University of Otago <i>'Environmental DNA for biodiversity, biosecurity and monster hunting'</i>	
11.00am –11.30am 30 mins	David Lambert (MB20) Environmental Futures Research Institute, Griffith University, Nathan, Australia <i>'Bursting the limits of time: ancient population genomics of Adélie penguins'</i>	
11.30am-12.00am 30 mins	Nic Rawlence (MB21) Department of Zoology, Otago University <i>'Subsistence practices, past biodiversity, and anthropogenic impacts revealed by New Zealand-wide ancient DNA survey'</i>	
12.00am-12.15pm 15 mins	Chris Battershill (MB22) University of Waikato <i>'Marine Bioactives: Exploiting flexible biosynthetic pathways to fine tune desirable modes of action'</i>	
12.15am-12.30pm 15 mins	Phil Ross (MB23) Environmental Research Institute, Coastal Science, University of Waikato <i>'Ancient aquaculture and the influence of early-Māori on the distribution and dynamics of toheroa'</i>	
12.30pm-1.30pm	Lunch	
Session 7: Environmental DNA Chaired by Michael Knapp (Otago University)		
1.30pm-2.00pm 30 mins	Dianne Gleeson (MB24) Institute for Applied Ecology, University of Canberra <i>'Application of eDNA for Marine Biomonitoring: Lessons learned from freshwater systems'</i>	
2.00pm-2.30pm 30 mins	Rochelle Constantine (MB25) School of Biological Sciences, University of Auckland <i>'Environmental DNA metabarcoding from the path of New Zealand's critically endangered Māui dolphins'</i>	

2.30pm-3.00pm 30 mins	Xavier Pochon (MB26) The Cawthron Institute, Nelson <i>'From alpine lakes to open oceans: using metabarcoding to enhance aquatic biomonitoring and biodiversity assessments'</i>	
3.00pm-3.30pm	Discussion	
3.30pm-4.00pm	Afternoon Tea	Trade Area

Shared Session 8: Genome Editing for plants/ Plant biotechnology for Forestry (joint with Plant Molecular Biology & Applied Genetic Technologies Biology) Chaired by TBC		
3.30-4.55pm 25 min	Andrew Allan (MB27) Plant and Food Research <i>New breeding technologies for fruit trees</i>	
4.55-4.20pm 25 min	Glenn Thorlby (MB28) Scion <i>Biotechnology and Forest Trees in New Zealand</i>	
4.20-4.45 25 min	Charleson Poovaiah (MB29) Scion <i>Developing Gene editing technology in conifers</i>	
	Short selected talk:	
4.45-5.00 15 min	Revel Drummond (MB30) Plant and Food <i>CRISPR Fruit: three bites at the problem</i>	
	Poster prizes, maybe 2 – one for animal/human and one for plant poster Closing remarks for both meetings	
7.00-8.40pm	FOOD EVOLUTION Movie screening	Clancy's Room
8:40pm-9:30pm	Panel discussion/Q&A: Alison van Eenennaam (UC Davis), Gregory Bryan (AgResearch/ZeaKal), Tony Conner (AgResearch), Aroha Te Pareake Mead (Ngāti Awa, Ngāti Porou)	Clancy's Room

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