

QRW Programme

Advances in Marine Biology and Aquaculture

Thursday 30 August – Friday 31 August, 2018

Rydges Hotel, Queenstown, New Zealand

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	Von Room, QT Building
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>	Von Room, QT Building
10.00-10.30	Morning Tea	Trades 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	Von Room, QT Building
11.00-11.15 15 min	Peter Morrison-Whittle (MB3) Plant and Food Research <i>'Developing Snapper for Aquaculture: The roadmap of genetic research from wild to farmed fish'</i>	Von Room, QT Building
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>	Von Room, QT Building
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>	Von Room, QT Building
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>	Von Room, QT Building
12.30-13.30	Lunch	Trades 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>	Queenstown Room
13.45-14.15 30 min	Julie Everett-Hincks (MB8) University of Otago <i>Gene editing in Aotearoa - legal considerations</i>	Queenstown Room

14.15-14.30 15 min	Maui Hudson (MB9) University of Waikato <i>Social License or Cultural License: Is there a difference?</i>	Queenstown Room
14.30-14.45 15 min	Jim Sinner (MB10) Cawthron Institute, Nelson <i>Social license in the marine environment: Dissecting the discourse</i>	Queenstown Room
14.45-15.00 15 min	Damien Mather (MB11) University of Otago <i>Conflicts between agricultural and tourism sectors: evidence for solutions</i>	Queenstown Room
15.00-15.15 15 min	Timothy Strabala (MB12) Environmental Protection Authority <i>The regulation of GMOs in New Zealand</i>	Queenstown Room
15.15-15.30 15 min	Mariska Wouters (MB13) MfE <i>Gene editing technologies: how they fit in New Zealand's policy framework</i>	Queenstown Room
15.30-16.00	Afternoon Tea	Trades Area
<u>Session 4: Genomic selection and breeding (joint with Applied Genetic Technologies)</u> Chaired by Jane Symonds		
16.00-16.30 30 min	Dorian Garrick (MB14) Massey University <i>Genomic Selection for Improvement of Populations</i>	Clancy's Room
16.30-16.50 20 min	Fiona Hely (MB15) AbacusBio Ltd <i>Optimised selection strategies in New Zealand aquaculture breeding schemes</i>	Clancy's Room
16.50-17.10 20 min	Shannon Clarke (MB16) AgResearch <i>Delivering genomic solutions to New Zealand's biological economy</i>	Clancy's Room
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>	Clancy's Room
17.30- 18.30	Poster session Social Mixer with drinks and nibbles <i>sponsored by pH Scientific and Merck</i>	Marquee Trades 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	Von Room, QT Building
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>	Von Room, QT Building
10.00am-10.30am	Morning Tea	Trades 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>	Von Room, QT Building
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>	Von Room, QT Building
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>	Von Room, QT Building
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>	Von Room, QT Building
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>	Von Room, QT Building
12.30pm-1.30pm	Lunch	Trades Area

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>	Von Room, QT Building
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>	Von Room, QT Building
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>	Von Room, QT Building
3.00pm-3.15pm	Jaret Bilewicz (MB27) NIWA, Wellington <i>'Quantification of Bonamia exitiosa infection levels in the flat oyster Ostrea chilensis by ddPCR'</i>	Von Room, QT Building
3.15pm-3.30pm	Discussion	Von Room, QT Building
3.30pm-4.00pm	Afternoon Tea	Trades Area

Shared Session 8: Genome Editing for Plants (joint with Plant Molecular Biology & Applied Genetic Technologies Biology) Chaired by Gregory Bryan (AgResearch)		
4.00pm-4.25pm	Andrew Allan (G30) Plant and Food <i>New breeding technologies for fruit trees</i>	Queenstown Room
4.25pm-4.50pm	Glenn Thorlby (G31) Scion <i>Biotechnology and Forest Trees in New Zealand</i>	Queenstown Room
4.50pm-5.15pm	Charleson Poovaiah (G32) Scion <i>Developing Gene editing technology in conifers</i>	Queenstown Room
5.15pm-5.30pm	Revel Drummond (G33) Plant and Food Research <i>CRISPR Fruit: three bites at the problem</i>	Queenstown Room
5:30pm-5:40pm	Closing remarks for all meetings	Queenstown Room
7:00pm-7:10pm	Welcome to public movie screening	Clancy's Room
7:10pm-8:40pm	FOOD EVOLUTION Movie	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

We are extremely grateful for the support of our sponsors, including Queenstown Research Week sponsors and our Satellite specific sponsors.