QRW Programme

Applied Genetics Technologies

Thursday 30 August – Friday 31 August, 2018 Rydges Hotel, Queenstown, New Zealand

Time	Details	Location
Tillie	Session 1: New Genetic Technologies	Location
	Chaired by Björn Oback (AgResearch)	
8.50am-9.00am	Welcome and Introduction: Björn Oback	Clancy's Room
0.50am 5.00am	Welcome and maroduction. Bjorn oback	Claricy 5 Noom
9.00am-9.30am	A. Francis Stewart (G1) Sponsored by AgResearch	
	TU Dresden	
	Beyond CRISPR/Cas9 genome editing to genome	
	engineering	
9.30am-10.00am	Konrad Fischer (G2) Sponsored by AgResearch	Clancy's Room
	Technical University of Munich (TUM)	,
	Genetically modified pigs for biomedicine	
10.00am-10.30am	Morning Tea	Trades Area
	Session 2: Genome Editing for Agriculture & Pest contr	rol
	Chaired by Matthew Littlejohn (LIC)	
10.30am-11.00am	Alison Van Eenennaam (G3) Sponsored by LIC	Clancy's Room
	University of California, Davis	
	Gene editing in cattle	
11.00am-11.30am	Goetz Laible (G4)	Clancy's Room
	AgResearch	
	Generation of enhanced cattle genotypes by genome	
	editing	
11.30am-12.00pm	Neil Gemmell (G5) sponsored by Thermo Fisher Scientific	Clancy's Room
·	University of Otago	
	Genetic Tools for Pest Eradication – Opportunities and	
	Challenges	
	Short selected talks:	Clancy's Room
12.00pm-12.15pm	Melanie Laird (G6)	Clancy's Room
	University of Otago	
	Possums and primordial germ cells – a novel method	
	of pest control	
12.15pm-12.30pm	Zach McLean (G7)	Clancy's Room
	AgResearch	
	Precise disruption of DAZL abrogates the male	
	germline in sheep	
12.30pm -1.30pm	Lunch	Trades Area
Ses	sion 3: Social license (joint with Plant Biology & Marine I	Biology)
	Chaired by Revel Drummond (Plant and Food)	
1:30pm-1:45pm	Barry Scott (G8)	Queenstown Room
	Institute of Fundamental Sciences, Massey University	
	The implications of gene editing technology for New	
	Zealand	
1:45pm-2:00pm	Julie Everett-Hincks (G9)	Queenstown Room
	University of Otago	
	Gene editing in Aotearoa - legal considerations	

2:00pm-2:15pm	Maui Hudson (G10)	Queenstown Room
p	University of Waikato	
	Social License or Cultural License: Is there a difference?	
2:15pm-2:30pm	Jim Sinner (G11)	Queenstown Room
	Cawthron Institute	
	Social license in the marine environment: Dissecting	
	the discourse	
2:30pm-2:45pm	Damien Mather (G12)	Queenstown Room
	University of Otago	
	Conflicts between agricultural and tourism sectors:	
	evidence for solutions	
2:45pm-3:00pm	Timothy Strabala (G13)	Queenstown Room
	Environmental Protection Authority	
	The regulation of GMOs in New Zealand	
3:00pm-3:15pm	Mariska Wouters (G14)	Queenstown Room
	Ministry for the Environment	
	Gene editing technology: how it fits in New Zealand's	
	policy framework	
3:15pm-3:30pm	General discussion	Queenstown Room
3:30pm-4.00pm	Afternoon Tea	Trades Area
Sessi	ion 4: Genomic selection and breeding (joint with Marine	Biology)
	Chaired by Jane Symonds (Cawthron Institute)	
4.00pm-4.30pm	Dorian Garrick (G15)	Clancy's Room
	Massey University	
	Genomic Selection for Improvement of Populations	
4.30pm-4.50pm	Fiona Hely (G16)	Clancy's Room
	AbacusBio Ltd	
	Optimised selection strategies in New Zealand	
	aquaculture breeding schemes	
4.50pm-5.10pm	Shannon Clarke (G17)	Clancy's Room
	AgResearch	
	Delivering genomic solutions to New Zealand's	
	biological economy	
5.10pm-5.25pm	Noemie Valenza-Troubat (G18)	Clancy's Room
	Plant and Food Research & Victoria University	
	'Genomics of New Zealand trevally: identifying the	
	genetic basis of quantitative traits to inform a newly	
F 25pm - C 20pm	genetic basis of quantitative traits to inform a newly developed breeding programme'	Trade Area
5.25pm - 6.30pm	genetic basis of quantitative traits to inform a newly developed breeding programme' Poster session sponsored by Millennium Science New	Trade Area
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5.25pm - 6.30pm 7.30pm	genetic basis of quantitative traits to inform a newly developed breeding programme' Poster session sponsored by Millennium Science New Zealand	Trade Area Winnies, 7-9 The Mall

Friday 31 August				
Time	Details	Location		
	Session 5: CRISPR genome editing			
Chaired by Goetz Laible (AgResearch)				
9.00am-9.10am	Welcome and Introduction: Goetz Laible	Clancy's Room		
9.10am-10.00am	Sponsored by AgResearch	Clancy's Room		
	Plenary lecture: Lluis Montoliu (G19)			
	Spanish National Research Council (CSIC)			
	Using CRISPR genome editing tools for animal			
	modelling human rare diseases			
10.00am-10.30am	Morning Tea	Trade Area		
Shared Session	6: Genetic Disease Models and Genetics Oversight NZ (je	oint with Rare Brain		
	<u>Diseases)</u>			
	Chaired by Francis Hunter (University of Auckland)			
10.30am-10.50am	Tracey Dickson (G20)	Clancy's Room		
	University of Tasmania			
	Getting the Balance Right: Targeting Excitatory			
	Dysfunction in the ALS Cortex			
10.50am-11.10am	Imke Tammen (G21) sponsored by Ramaciotti Centre for	Clancy's Room		
	Genomics	,		
	University of Sydney			
	Generation of a sheep model of CLN7 Batten disease			
	using the CRISPR/Cas9 genome editing system –			
	preliminary results and ethical reflections			
11.10am-11.30am	Renee Handley (G22) sponsored by Millennium Science	Clancy's Room		
	New Zealand			
	University of Auckland			
	Brain urea increase is an early pathogenic event in			
	Huntington's disease			
11.30am-11.50am	Peter Dearden (G23)	Clancy's Room		
	Genomics Aotearoa, University of Otago			
	Genomics Aotearoa: Aiming to improve the use of			
	genomics in New Zealand			
11.50am- 12.10pm	Kate Neas (G24)	Clancy's Room		
	Genetic Health Service NZ			
	A step towards unifying health genomic activity in NZ			
	introducing Genomic Health Alliance New Zealand			
12.10pm-12.30pm	Discussion session	Clancy's Room		
	Sharing/improving/linking research resources			
12.30pm-1.30pm	Lunch	Trades Area		
	Session 7: Genome editing for human health	•		
	Paul Tan (NZeno)			
1.30pm-2.00pm	Francis Hunter (G25) sponsored by Integrated DNA	Clancy's Room		
•	Technologies Pte. Ltd			
	University of Auckland			
	Functional genomic approaches to understanding			
	responses to cytotoxic anti-cancer therapies			
2.00pm-2.30pm	William Kelton (G26)	Clancy's Room		
•	Scion			
	Immunogenomic engineering of MHC alleles			

2.30pm-3.00pm	Mark Nottle (G27)	Clancy's Room		
2.300 3.000	University of Adelaide			
	Use of gene editing technology to accelerate			
	xenotransplantation research			
	Short selected talks:	Clancy's Room		
3.00pm-3.15pm	Sarah Appleby (G28)	Clancy's Room		
	AgResearch			
	Generating immune-compatible sheep for			
	xenotransplantation			
3.15pm-3.30pm	Hilary Sheppard (G29)	Clancy's Room		
	University of Auckland			
	Functional outcomes of fine tuning the expression of			
	PD-L1 and PD-1 proteins to the melanoma immune			
	response			
3.30pm-4.00pm	Afternoon Tea	Trade Area		
Shared Sessi	on 8: Genome Editing for plants (joint with Plant Biology	, Marine Biology)		
Chaired by Gregory Bryan (AgResearch)				
4.00pm-4.25pm	Andrew Allan (G30)	Queenstown Room		
	Plant and Food			
	New breeding technologies for fruit trees			
4.25pm-4.50pm	Glenn Thorlby (G31)	Queenstown Room		
	Scion			
	Biotechnology and Forest Trees in New Zealand			
4.50pm-5.15pm	Charleson Poovaiah (G32)	Queenstown Room		
	Scion			
	Developing Gene editing technology in conifers			
5.15pm-5.30pm	Revel Drummond (G33)	Queenstown Room		
	Plant and Food Research			
	CRISPR Fruit: three bites at the problem			
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:	Clancy's Room		
	Alison van Eenennaam (UC Davis), Gregory Bryan			
	(AgResearch/ZeaKal), Tony Conner (AgResearch),			
	Aroha Te Pareake Mead (Ngāti Awa, Ngāti Porou)			

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

Sponsors of the QRW Applied Genetic Technologies Satellite meeting include: **AgResearch** and the **Livestock Improvement Corporation**.