

## Kai mō Aotearoa Food Science meeting

Sunday 27 August – Monday 28 August, 2023

Rydges Hotel, Queenstown, New Zealand

Sponsored by: High Value Nutrition National Science Challenge

National  
**SCIENCE**  
Challenges

HIGH-VALUE  
NUTRITION

Ko Ngā Kai  
Whai Painga

### Sunday 27<sup>th</sup> August

Time	Details		
08.30 – 08.45	QRW Mihi Whakatau		Queenstown Rm
<b>Kaiwhakataki: Haunui Royal Hauraki, Ngati Raukawa ki te Tonga, Nga Puhi</b>			
09.00 – 09.05	Karakia		Wakatipu Rm
09.05 - 09.15	Introduction		Wakatipu Rm
<b>Session 1</b>	<b>Overview and Māori perspectives</b>		Wakatipu Rm
09.15 - 09.45	F1: Biodiversity and Tiriti	Nick Roskrige Te Atiawa, Ngati Tama	Massey
09.45 – 10.00	F2: Working at the interface of mātauranga Māori and science	Jane Mullaney Ngati Porou, Ngati Raukawa <i>Sponsored by GenScript Biotech</i>	AgResearch
10.00 -10.15	F3: Indigenous ethics in research: the protection and correct treatment of Taonga species	Anna Edwards, (Rongowhakaata)	AgResearch
10.15 – 10.30	F4: From Kānuka and beyond: Ngāti Kuia descendants of the K7 Ahuwhenua trust approach to Mātauranga Māori and realising the potential of the whenua.	Vicky Thorn, Ngati Kuia, Ngati Apa Ki Te Ra To, Rangitane, Ngati Koata and Ngai Tahu	K7 Ahu Whenua
10.30 – 11.00	Morning break		Trade Area
<b>Session 2</b>	<b>Plant biodiversity and natural products</b>		Wakatipu Rm
11.00 – 11.30	F5: Aotearoa New Zealand Natural Products Chemistry and Biodiversity – an overview	Nigel Perry <i>Sponsored by Mediscope International Limited</i>	UoO/PFR

11.30 – 12.00	F6: Kawakawa ( <i>Piper excelsum</i> ) research as an exemplar for understanding, protecting and enhancing the potential of taonga plants	Meika Foster Te Ātiawa; Ngāti Mutunga	UoA
12.00 – 12.30	F7: Mānuka and Kānuka Leaf Bioactive Natural Products	John van Klink	PFR/PFR
12.30 – 13.30	Lunch		Trade Area
13.30 – 14.00	F8: Tracing the diversity and phylogenetic inter-relationships of kawakawa using a transcriptome-based approach	Nathan Kenny Te Ātiawa, Ngāti Tahu <i>Sponsored by Decode Science</i>	UoO
14.00 - 14.30	F9: Mātauranga on kawakawa to identify insect herbivores with beneficial bioactive activity	Chrystal Te Ohore O'Connor Ngāti Hauā, Ngāti Pāoa	AgResearch
14.30 – 15.00	F10: Bioavailability and metabolism of kawakawa leaf chemicals in humans	Ramya Jayaprakash	UoA
15.00-15.30	Afternoon break		Trade Area
15.30 -16.00	F11: Kawakawa tea intake and inflammation: An integrative mRNA-miRNA analysis	Farha Ramzan	UoA
16.00-16.30	F12: <i>In silico</i> tools for bioprospecting of bioactive compounds from indigenous NZ flora	Dominic Agyei	UoO
16.30 – 17.00	F13: The chemical space of horopito ( <i>Pseudowintera colorata</i> )	Chris Pook	UoA
	Karakia and close		
17.00 – 18.30	Evening Social Function <i>Sponsored by Decode Science</i>		Trade Area

## Monday 28<sup>th</sup> August

Time	Details		
8.30-8.35	Karakia		
<b>Session 3</b>	<b>Honey</b>		Wakatipu Rm
08.35 – 08.55	F14: What's so sweet about Mānuka honey?	Troy Merry <i>Sponsored by Abacus dx</i>	Comvita
08.55 – 09.20	F15: Mānuka floral nectar chemistry	Mike Clearwater	UoW
09.20 – 9.45	F16: Quantifying the ecological changes associated with the conversion of pasture to mānuka farms	Georgia Woodall	Comvita
09.45 – 10.15	F17: Lepterdine™ from mānuka honey: utility as an	Kerry Loomes	UoA

	authenticity marker and bioactive properties.		
10.15 – 10.45	F18: Study of mānuka honey for Digestive Health (SOOTHE)	Nicole Roy	UoO
10.45 – 11.15	Morning Break		Trade Area
11.15 – 11.45	F19: A Sweet Solution to a Sticky Problem? Mānuka Honey for treating <i>Mycobacterium abscessus</i> infection	Jonathan Cox	University of Aston
11.45 – 12.15	F20: Chemical analysis of New Zealand honeydew honey and its potential application	Rothman Kam	AUT
12.15 – 12.30	Discussion		
12.30 – 13.30	Lunch		Trade Area
<b>Session 4</b>	<b><u>Green Shell Mussels and health</u></b>		Wakatipu Rm
13.30 – 14.00	F21: Mussel industry and bioactives: an overview	Matt Miller	Cawthron
14.00 – 14.25	F22: Real-Time Composition of Wet Marine Biomass: Toward Industry 4.0	Daniel Killeen	PFR
14.25 – 14.50	F23: Effects of Greenshell mussel intervention on biomarkers of cartilage metabolism: preclinical and human clinical intervention observations.	Marlena Kruger	Massey
14.50 - 15.15	F24: Effects of Greenshell mussel on signs and symptoms of Knee Osteoarthritis	Pamela von Hurst	Massey
15.15 - 15.40	F25: Mussels for Muscles: Investigating the effects of Greenshell mussel supplementation on improving muscle recovery following exercise-induced muscle damage in untrained adult males	Dominic Lomiwes	PFR
	Karakia and close		
15.45 – 16.00	Afternoon break		Trade Area
16.00 – 17.30	<b><u>Joint session with AWCBR and Microbiome</u></b>		Queenstown Rm
	Targeting the gut-brain axis with polyphenols – Preliminary findings from a randomized cross-over trial:	Nicola Gillies	UoA
	Parkinson’s disease and nutrition: what is the link?	Fiona Lithander	UoA
	The effect of milk fat globule membrane supplementation on cognitive	Rebecca Slykerman	UoA

	and psychological outcomes in adults”		
	Linking the Gut Microbiome to Neurocognitive Development in Bangladesh Malnourished Infants	Theo Portlock	UoA
	Effects of intermittent access to high-fat, high-sugar diets on behaviour and gut microbiota”	Mike Kendig	University of Technology, Sydney
18.00 – 19.00	Nobel Laureate Lecture – Professor David Julius <i>Sponsored by University of Otago</i>		Queenstown Rm
19.00 – 21.00	Fashionomics and Evening Social Function <i>Sponsored by Thermo Fisher Scientific</i>		Trade Area