

Tūhauora



LIGGINS
INSTITUTE



HIGH-VALUE
NUTRITION

Ko Ngā Kai
Whāi Painga

National
SCIENCE
Challenges



Smart Regulatory Solutions

Chia Sisters 



EDIBLE RESEARCH

Translational research in Food and Nutrition Science
Kia Whai Hua te Rangahau i ngā Mātauranga Kai



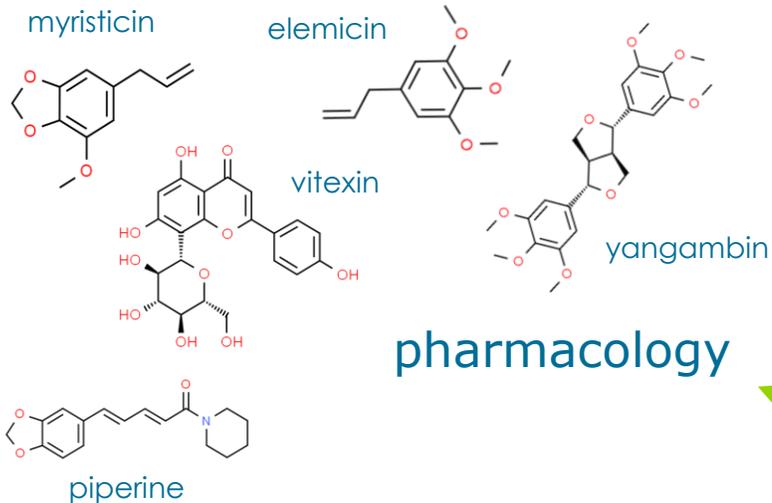
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Project funded by HVN with three goals:

- Manufacture and characterise a functional beverage containing the taonga, kawakawa.
- Conduct clinical trials to investigate the short- and medium-term effects of consuming the beverage with, and without kawakawa, upon metabolic and immune health.
- Investigate regulatory threshold in target markets in South East Asia.



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pharmacology

nutrition

Regulatory Considerations for Kawakawa and Horopito Containing Beverages in Japan, Singapore, China and South Korea

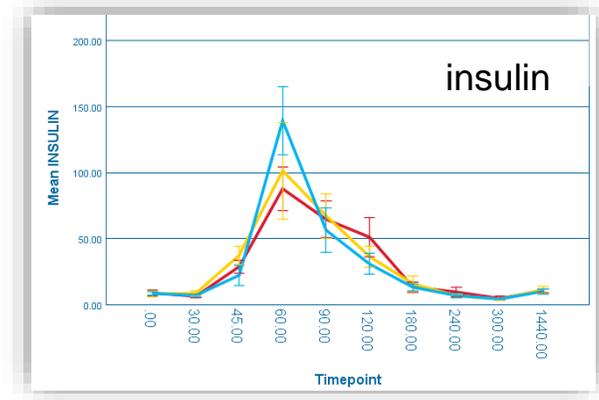
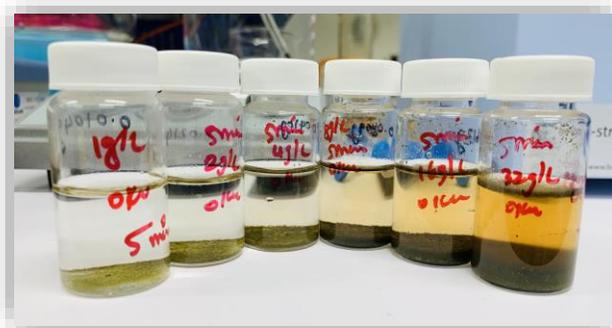


regulation

outcomes

health

Mātauranga Māori



- A new formulation that includes Gold kiwifruit - Livaux™ as the primary ingredient
- Co-designed with Japanese customer and Chia Sisters
- Designed to meet New Zealand and export market regulations
- Build evidence and create the pathway for kawakawa to become a functional additive in the future
- High Value Nutrition Science Challenge partnership (December 2020)

International Customers in Japan



Tūpuna Pono

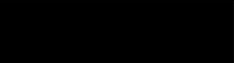
Being Good Ancestors

AuOra

- AuOra designs and delivers health and wellness solutions that enhance quality of life and our natural world.
- A Model of capability building, open innovation, service and outreach for local, regional, national, global impact.
- Combining traditional knowledge and science.
- Building partnerships across the value chain to enhance our local and global reach and impact.
- A core focus on **enhancing and protecting** our taonga (those things that are special to us and in our care, including our ecosystems, biodiversity, language, knowledge and data).



Our Strategic Partners and Relationships



Ministry for Primary Industries
Manatū Ahu Matua



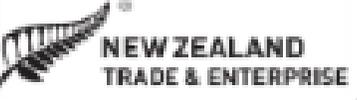
Ferrier Research Institute
Te Kāuru



ABSOLUTE ESSENTIAL



Smart Regulatory Solutions



NEW ZEALAND'S RICHEST SOURCE OF NATURAL IODINE



ADVANCING FRONTIERS IN FOOD SCIENCE



New Zealand



TE KUNENGA KI PŪREHUROA



National Science Challenges



SCIENCE WELLNESS



HĪKINA WHAKATUTUKI



THE UNIVERSITY OF AUCKLAND NEW ZEALAND



THE FOODBOWL



REALISING MŌRĪ POTENTIAL



Rangahau Ahumāra Kai



THE FOODBOWL



Berry good for you!



Nutrition for improving lives.



Te Rūnanga o Ngāi Tahu



Rangahau Ahumāra Kai



for Advanced Materials and Nanotechnology



CallaghanInnovation BUSINESS TECHNOLOGY SUCCESS



Te Tauihu Native Plant Library

- Secondment of a leading New Zealand Botanist from Department of Conservation to Wakatū.
- Catalogue all vascular plants indigenous to Te Tauihu.
- Document: names, life forms, distribution, endemism, abundance, threat status, family / hybrids / varieties.
- Electronic library with 2134 entries.
- Compilation of published and unpublished information.



In Progress

- In the absence of law or policy, no requirement for Government to confer with Māori re access and use of indigenous flora and fauna
- Wakatū is developing its own Access, Utilisation, and Benefit Sharing (ABS) framework
- Wakatū ABS Internal Audit
- Work with marae / hapū to develop community protocol(s)
- Consideration of key issues to:
 - determine communities of origin
 - obtain Prior Informed Consent
 - negotiate benefit-sharing through Mutually Agreed Terms



Te Anga Whakamua – High Value Pathway: Overview

- Alignment with Indigenous Organisms Programme
- Streamlined high-value industry pathway to engage effectively with science, technology, and innovation in the development of bioactive ingredients / functional food and beverage solutions for health & wellness
- Collaboration with MPI Māori Agribusiness Team / Supply Chain Integrity Programme (SCIP), MBIE, MFAT & wider Government; Science Partners







Overcoming Challenges

- Protection of Mātauranga
- Registration of indigenous ingredients in markets
- Industry organisation & standards
- Aligning of Food Safety Systems; Challenges with New Zealand system (i.e. traditional v novel foods)
- Data needs & ongoing functionality (requirement for long-term funding)

