The NETwork! Roadmap for Genomic Research and Māori Engagement in New Zealand

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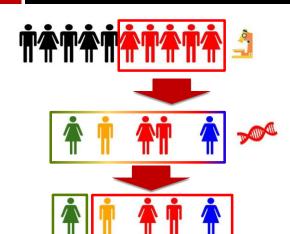








Genomic Technology & Personalised Cancer Medicine



Pathology – diagnosis of cancer





Personalised Medicine



Protection, Partnership, Participation



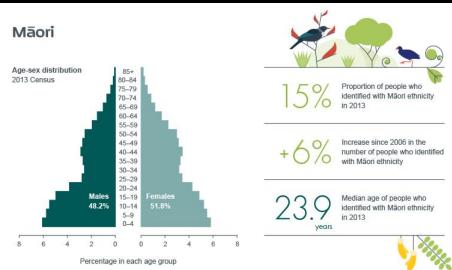
'Signing of the Treaty of Waitangi'

February 6, 1840

Modern reconstruction, showing Tāmati Wāka Nene signing the Treaty in front of James Busby, Captain William Hobson and other British officials and witnesses. Some Māori signatories are assembled on the left.

By Marcus King (artist) Ref: G-821-2 Alexander Turnbull Library

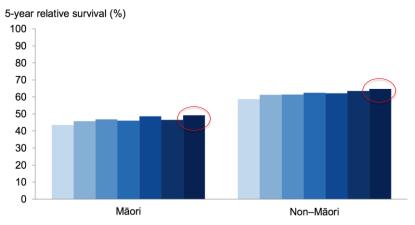
Māori population in New Zealand



Source: Statistics New Zealand and licensed by Statistics NZ for re-use under the Creative Commons Attribution 4.0 International licence.

Equitable?

Survival, by ethnic group





Neuroendocrine Tumours (NETs)

Uncommon, slow-growing tumours that develop from hormone secreting cells

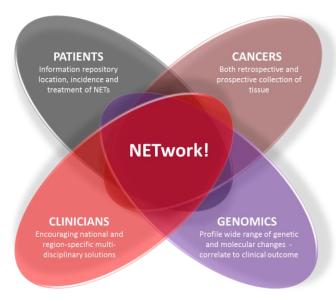
• GI tract
• Lungs
• Pancreas
• Ovaries/Testes

New Zealand incidence not known

New Zealand incidence not known

New Zealand incidence not known

PUKUmahi! or NETwork! is a multifaceted project.



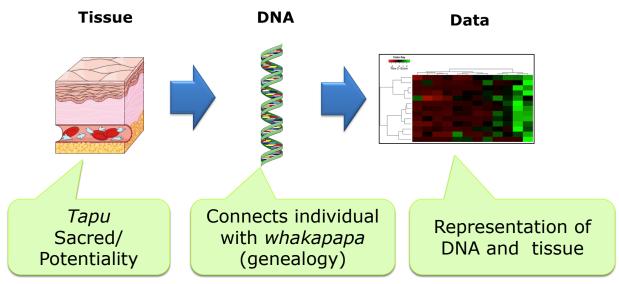
PUKUmahi:

- puku (tumour)
- mahi (work)
- pukumahi (industrious, hardworking, diligent)

Kaupapa - Purpose/Intentions

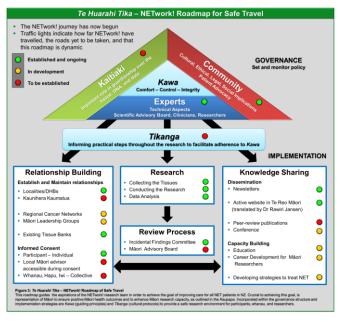
- Nationwide research that will involve Māori and relates directly to Māori health.
- Urgent need for
 - Positive Māori health outcomes
 - Enhancing Māori research capacity
- Ensuring that PUKUmahi! has sufficient representation of Māori to benefit
 Māori health
- Ensure culturally safe research environment
- Minimize the potential of repeating past transgressions
 - Arizona State University
 - The 'warrior gene' hypothesis

Tissue is precious... and so is the Data



"Tissue" and "DNA" Servier Medical Art provided by Servier under CC BY 3.0

The NETwork! Roadmap for Safe Travel (v1.0)



Established and ongoing

In development

To be established

NETwork! Governance Structure

Set and monitor policy

Kawa – Guiding Principles

Comfort - for Participants, Whanau, and Researchers

Control - Consent process

Integrity - sticking to what was consented/agreed

Tikanga - Cultural Protocols

Tikanga

Informing practical steps incorporated throughout the research to facilitate adherence to *Kawa*

Tikanga should inform:



Tissue collection & disposal

Karakia (blessing)
Respect spiritual elements
and whakapapa
Closure/Peace

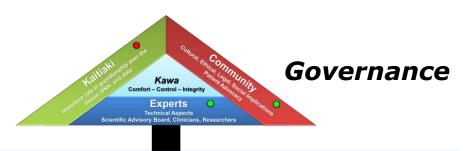
Community engagement

Cultural Safety and Sensitivity

Reciprocity

Use of samples and data

Accepting and maintaining responsibility



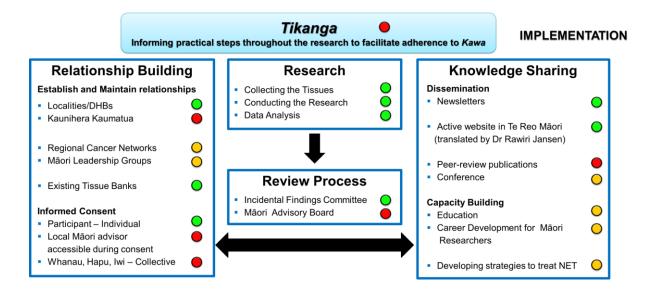
Tikanga



Informing practical steps throughout the research to facilitate adherence to *Kawa*



Implementation



Whakarāpopototanga (Summary)

- Personalised Medicine for Cancer is coming and is going to involve Genomic Technology
- We need to establish culturally safe practices in this context to ensure that health benefits extend to Māori (and indigenous people)
- The NETwork Roadmap v1.0 is a dynamic roadmap guiding the researchers and clinicians on best practice to address these challenges

Nga mihi - Acknowledgements



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• ■ NETwork

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Translational Medicine Trust

