

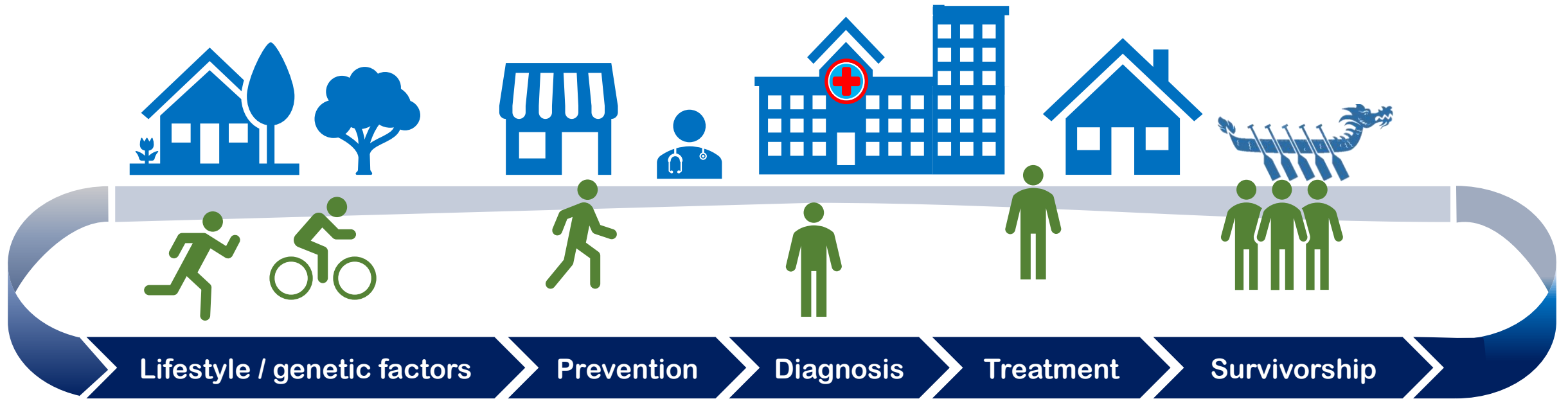


UNIVERSITY
of
OTAGO
Te Whare Wānanga o Ōtago
NEW ZEALAND

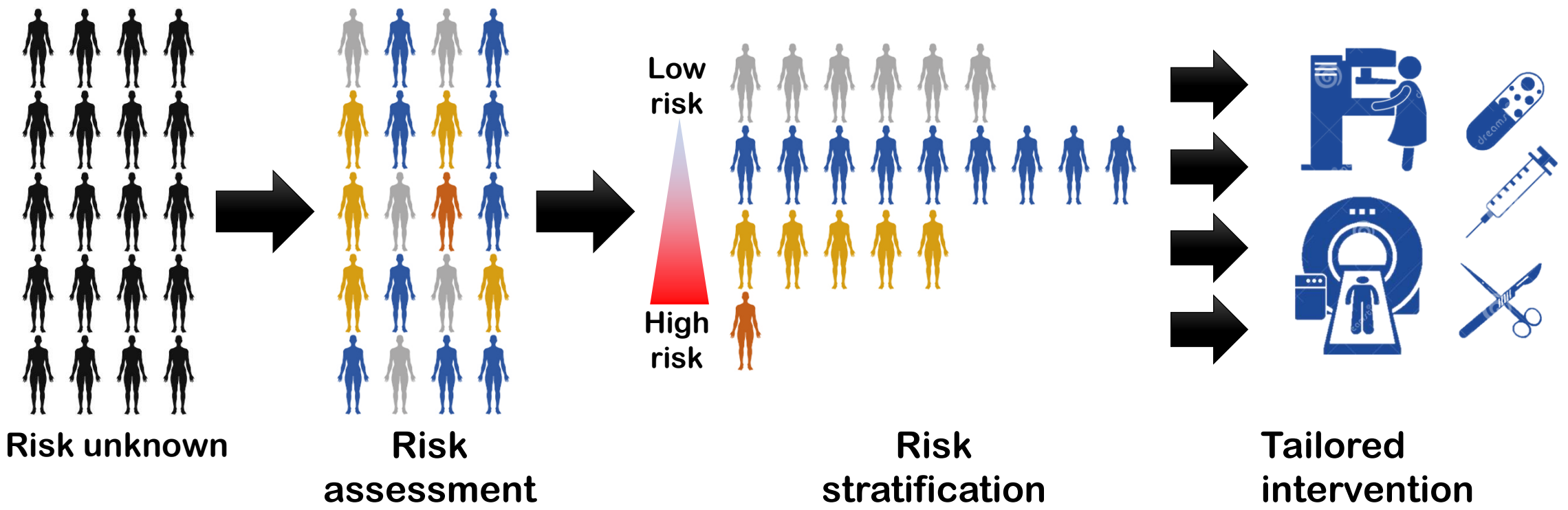
Genetic clues to breast cancer prevention

Associate Professor Logan Walker
University of Otago Christchurch

The breast cancer continuum



Personalized approach to prevention of cancer



Clinical pathway

Translational research

Patient referred to Genetic Health Service NZ



Identification of high risk families



GENETIC HEALTH SERVICE
NEW ZEALAND
RATONGA HAUORA IRANGA
AOTEAROA

Genetic testing



Diagnostic assessment of genetic results



Variant of *unknown* clinical significance



Variant of known clinical significance



Tailored strategy - cancer prevention or treatment

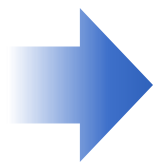


Genetic screening in NZ – who are we missing?



Dr Vanessa Lau

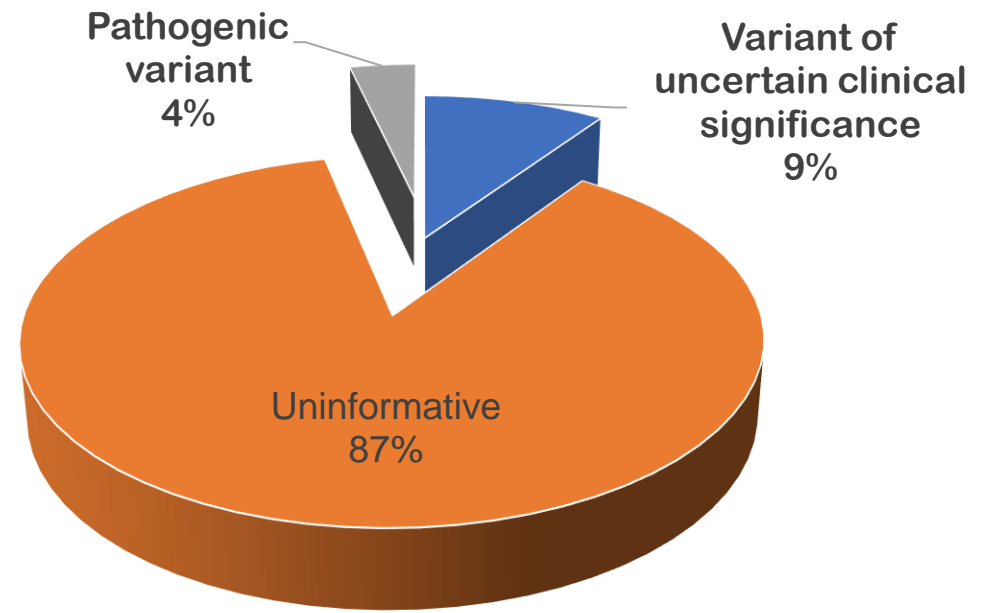

Women diagnosed with breast cancer
n=367



He Taonga Tapu -
Cancer Society
Tissue Bank



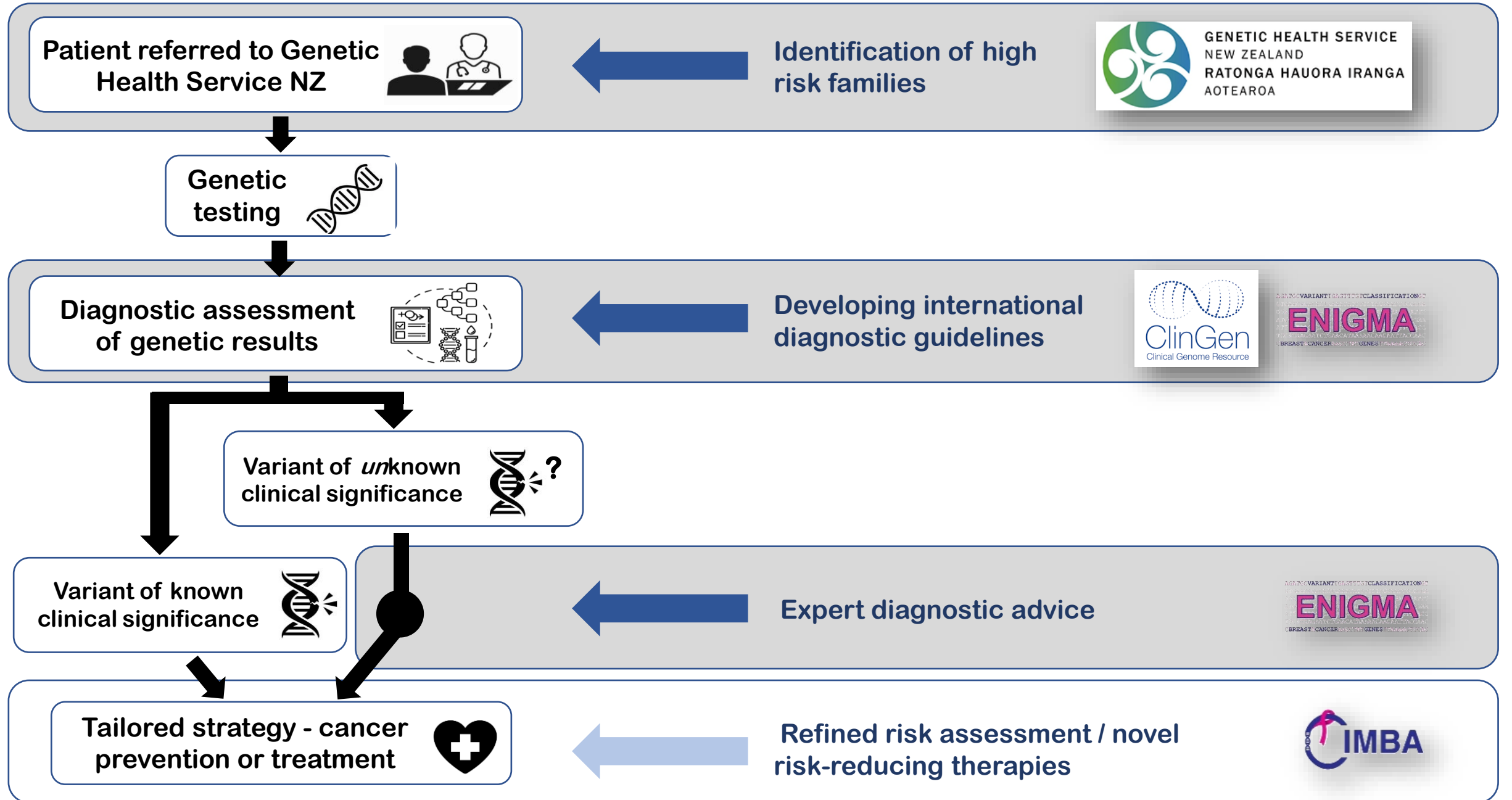
Panel gene sequencing



~50% of pathogenic variant carriers missed out on genetic testing

Clinical pathway

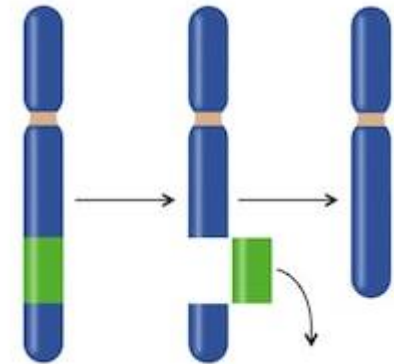
Translational research



Novel preventative therapies for breast cancer



Modifier gene deletion



Epidemiological & laboratory evidence

Reduced breast cancer risk



Acknowledgements

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University of Queensland

University of Cambridge

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Christchurch Hospital/Te Whatu Ora -
Waitaha

Genetic Health Service NZ

QIMR Berghofer Medical Research
Institute



AGATGCVARIANTTGAGTTTGTCLASSIFICATIONGT
GTGAACAGACACTGAAATATTTCTAGGAATTGCGGGA
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TGCAGAAGAATCTGAACATAAAAAACAACATTACGAAC
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