Postdoctoral research fellow in translational cardiac research
Discovery science in cardiometabolic disease

Applications are invited for a post-doctoral research fellow to work in the field of molecular discovery in cardiology. Successful applicants will be a part of a dynamic team with a mission to understand how the heart responds to metabolic stress, and discover novel molecular targets to test new therapeutic interventions for diabetic heart disease.

This project is in the field of pre-clinical discoveries in cardiology with a focus on diabetic cardiomyopathy, metabolism and failure. The early occurrence of diastolic dysfunction in otherwise ‘healthy’ asymptomatic diabetic patients has been extensively reported, and is prognostic of later occurrence of heart failure and increased mortality. There are currently no evidence-based treatments for diastolic dysfunction, and our goal is to identify novel mechanisms with therapeutic value.

This role will enable an emerging scientist to undertake research on a collaborative project in Dr Kim Mellor’s lab at the University of Auckland, and Prof Lea Delbridge’s lab at the University of Melbourne. This project will involve work with experimental models of disease and clinical biopsy samples and employs a range of innovative state-of-the-art techniques including:

- gene editing (Crispr) & gene therapy (AAV)
- VEVO high frequency ultrasound echocardiography
- cardiomyocyte live cell imaging
- isolated heart perfusions
- proteomics, metabolomics, gene profiling
- cell culture of cardiomyocytes

Specific areas of research include:
- diastolic dysfunction
- cardiac metabolism
- autophagy
- signaling regulation & post-translational modification of proteins
- cardiac function (echocardiography)
- cardiomyocyte mechanics and Ca handling (live cell imaging)

This position is for researchers who have completed a PhD, preferably in the field of cardiac or cardiovascular physiology. Technical expertise in cardiac function evaluation (e.g echocardiography), cardiomyocyte live cell imaging, and isolated heart preparations, is highly desired.
We are looking for an eager and enthusiastic scientist with evidence of a quality publication record, with excellent communication skills and willingness to provide leadership. This is a full time role for two years with a preferred start date of May 2020 (negotiable). The lab is funded by competitive grants from the Health Research Council of New Zealand, Marsden Fund New Zealand and the National Health & Medical Research Council of Australia.

**About the University of Auckland:**

The University of Auckland is ranked within the top 100 of the QS World University Rankings, making it New Zealand’s highest ranked university. It is also the largest and most comprehensive. The University of Auckland is a recipient of a five star plus QS Stars University Rating for excellence in the categories: Research, Employability, Teaching, Facilities, Internationalisation, Innovation and Inclusiveness.

The University is located in the harbour city of Auckland, New Zealand’s economic and cultural hub, with easy access to stunning beaches and rainforests. Auckland is ranked as one of the world’s top three cities for quality of living, according to the 2017 Mercer Quality of Living Survey. It is also ranked in the top 30 of the QS Best Student Cities 2017. The University of Auckland has five main campuses, the largest of which is nestled within Auckland’s bustling city centre.

**Applications:**

Please submit a cover letter and CV via email to Dr Mellor k.mellor@auckland.ac.nz and Prof Delbridge lmd@unimelb.edu.au

Salary will be based on experience and qualifications.