PROJECT DETAILS

Project Title:

Suboptimal health: A new instrument for chronic disease assessment.

Project Summary:

Chronic diseases remain a global burden, often developing from a subclinical, reversible stage known as suboptimal health status (SHS). This project aims to develop a novel assessment tool that integrates biomarkers, clinical indicators, and self-reported health metrics to identify individuals at risk of progressing to chronic disease. By leveraging predictive, preventive, and personalized medicine (PPPM) approaches, this proposed PhD project will a longitudinal study in design for enhancing and implementing an early PPPM intervention strategy. The expected outcome is a validated, clinically applicable SHS assessment tool, contributing to proactive healthcare, reducing chronic disease incidence and global burden of health, and supporting ECU's focus on precision health and translational research in chronic disease prevention at state, national and international scales.

Preferred Applicant Skillset:

The ideal PhD candidate should have a strong background in biomedical sciences, pharmacology, or public health, with experience in clinical research and data analysis. Proficiency in biostatistics and familiarity with statistical software. The candidate should demonstrate strong problem-solving, project management, and communication skills. The applicant should be highly self-motivated and capable of working both independently and collaboratively within a multidisciplinary research environment. International applicants with a background of global health in non-communicable diseases (NCD) study are also welcome to apply.

Internship Opportunity:

Dr Tao Wang from Telethon Institute will be invited to serve as the external co-supervisor for the successful PhD candidate. The PhD candidate will be having a chance to work at the Telethon Kids Institute during the scholarship. The applicant will be also providing a chance to working with an international partner, Amsterdam Medical Center, on an ongoing RCT supported by Alzheimer Nederland.

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