ENAKSHI SINNIAH

Genetics and Cardiovascular development Dr Nathan Palpant

PhD student at the University of Queensland

Enakshi Sinniah graduated from the University of Queensland (UQ) earning a B.Sc. with an extended major in Biomedical Sciences in 2016. In the final year of her undergraduate degree she was trained under the supervision of Professor Ernst Wolvetang at the UQ Centre in Stem Cell Ageing and Regenerative Engineering. Thereafter she joined the Palpant Laboratory for Stem Cells and Cardiovascular Development at the Institute for Molecular Bioscience (IMB) where she completed her Honours degree, graduating with First class honours and a Dean's Commendation. In 2018 she began her graduate studies in the field of cardiac stem cell research as a PhD student under the guidance of Dr. Nathan Palpant.

The scope of Enakshi's PhD research focuses on identifying key genetic drivers of cardiovascular development and disease. Together with an interdisciplinary team of computational and developmental biologists she is working toward the invention and validation of a novel computational platform that will aid the greater scientific community in analysis and identification of cell-identity genes from any gene-expression data. Using hiPSC-derived cardiomyocytes as a unique model system, during her PhD she aims to implement this strategy to identify and functionally validate novel candidate genes driving cardiac development, regeneration and disease.

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