

## **Chrishan Ramachandra**

Chrishan Ramachandra is a Principal Investigator at the National Heart Research Institute Singapore and Assistant Professor in the SingHealth Duke-NUS Cardiovascular Sciences Academic Clinical Programme. His work focuses on modelling cardiac diseases using induced pluripotent stem cells (iPSCs) to discover personalised therapeutics and new treatment targets for heart failure. He has made significant contributions to understanding cardiomyocyte differentiation, identifying key signalling networks, and advancing iPSC-derived cardiomyocyte maturation. His research on Long QT Syndrome type 2 (LQT2) uncovered novel molecular mechanisms and potential treatments. Additionally, his investigation into hypertrophic cardiomyopathy revealed myeloperoxidase as a therapeutic target. More recently, he has established patient-specific iPSC models of cardiometabolic disease for identifying and validating new therapeutic targets. His innovative work has earned him various awards and editorial board positions in scientific journals. His work has yielded crucial insights into heart failure mechanisms, with some identified treatments currently undergoing clinical evaluation.