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Dr Jaiprakash Mohanraj is a clinician-scientist, academic leader and translational researcher with over two decades of experience spanning molecular medicine, cardiovascular biology and health professions education. He currently serves as Associate Professor of Biochemistry and Associate Dean for Student Affairs at IMU University, Kuala Lumpur. He holds an MBBS, MD in Biochemistry, PhD in Medical Sciences and postgraduate qualifications in Medical Education from the University of Dundee, UK.

His scientific work centres on molecular signaling mechanisms underlying cardiometabolic and vascular disease, with a growing emphasis on the intersection between Cardiovascular biology and Cancer. A defining component of his recent scholarship is the investigation of Striatin (STRN) as a multifunctional scaffolding protein and signalling integrator. His Q1 publication in *Biomedicine & Pharmacotherapy* (2025) provides a mechanistic synthesis of Striatin's role within PP2A-associated complexes, endothelial nitric oxide regulation, vascular remodelling and tumor-associated signaling pathways. This work positions Striatin as a critical signalling hub linking vascular homeostasis and oncogenic progression, highlighting its translational relevance in targeted therapeutic strategies.

Beyond Striatin biology, Dr Mohanraj has led funded research on Leptin polymorphisms, Adipokine signaling, Oxidative stress, Metabolic biomarkers and Cardiometabolic risk profiling in multiethnic populations. His investigations integrate biochemical markers with clinical phenotypes to better understand systemic disease progression. He has authored multiple Q1 and Q2 indexed publications, holds an H-index of 9 (Scopus) and has presented at major international scientific platforms, including APFCB 2024 (Sydney).

Parallel to his biomedical research, he is widely recognized for contributions to academic innovation and curriculum leadership. He has led the development and regulatory approval of new academic programs, chaired institutional assessment and learning committees, pioneered AI-enabled feedback systems and structured remediation frameworks in medical education. His work reflects a systems-level approach to integrating molecular science, translational research and educational transformation.

Dr Mohanraj's scholarship bridges bench science, clinical relevance and academic leadership, contributing to emerging conversations in signaling biology, cardiometabolic complexity, and interdisciplinary biomedical research.