

Dr. Shayanti Mukherjee,

AI and Val Rosenstrauss Fellow

Head, Translational Tissue Engineering Lab

The Ritchie Centre, Hudson Institute of Medical Research

Adjunct, Department of Obstetrics and Gynaecology, Monash University

Victoria, Australia

Dr Shayanti Mukherjee is the Head of the Translational Tissue Engineering Laboratory at Hudson Institute of Medical Research and Department of Obstetrics and Gynaecology, Monash University in Melbourne, Australia. She is the recipient of the prestigious AI and Val Rosenstrauss fellowship. She completed her PhD at the National University of Singapore where her work contributed to the growing body of nanostructured biomaterials design for the repair and regeneration of soft tissue. Currently, her research merges multiple disciplines to understand how chronic pelvic floor disorders manifest after childbirth injury and develop novel cell-based tissue-engineered therapies for pelvic reconstruction to advance maternal urogynaecological health. To this end, Dr Mukherjee has designed novel tissue-engineered surgical constructs using electrospinning, 3D Printing, melt electro-writing as well as bioink formulations for stem cell bioprinting. Her research utilises small and large pre-clinical models to determine host foreign body response to biomaterials and stem cell-based tissue-engineered constructs.

