Prof Jennifer Cleland
Research on education is crucial to increase our understanding about how to best educate doctors in order to prepare them for the delivery of high-quality care within the dynamic context of the healthcare setting. I am interested in Learning Environments in Medical Education. My specific research themes are:
1. The human-technology-space assemblage,
2. Performance, Progression and Careers Decision Making and
3. Learning in the Clinical Workplace.

Prof Helen Smith
My research interests are the evaluation of new “technologies” (relating to medications, screening, IT, psychological interventions, service organisation etc) to improve care for patients being cared for by their family physician. I have clinical expertise is in Allergy and Respiratory disorders, Health Literacy and Pharmacogenomics.

Prof Wang Yulan
Interaction between host and gut microbiota.
Holistic approach to studying the interaction between gut microbiota and host and subsequent influence of co-metabolites on health and diseases status will be the focus of research.

Assoc Prof Yusuf Ali
My laboratory is interested in understanding the molecular basis of pancreatic endocrine cell alterations in pre-diabetes as well as full blown type-2 diabetes. Using a combination of molecular and imaging tools, we dissect, characterize and intervene (in) diabetes pathogenesis with the overarching goal of stemming diabetes.

Assoc Prof Tan Nguan Soon Andrew
We have developed a physiologically-relevant mouse model that shows the sequelae of human NAFLD. We want to understand the impact of fermentable fibre on gut microbe in the development of NAFLD.

Asst Prof Sanjay Chotirmall
My lab is focused on the bedside to bench translational approaches to clinical respiratory medicine that utilizes novel approaches, model systems and molecular microbiology to address precision medicine for chronic respiratory diseases affecting Asian populations. A key focus is pulmonary infection and we study this using state of the art metagenomics, lung organoids, microbiome analyses and other interdisciplinary approaches utilizing patient derived specimens obtained through our multiple national and international collaborations.

Nanyang Asst Prof Guan Xueli
1. Elucidation of the link between metabolism and bacterial infections and antimicrobial resistance
2. Identification of metabolism-based networks for potentiation of antimicrobials
3. Development of next generation lipidomics approaches for systems biology and personalized health

Asst Prof Tsukasa Kamigaki
My research aims to understand the brain mechanisms that implement executive functions. We are also interested in how those mechanisms are disrupted in association with ageing and psychiatric disorders.

Asst Prof Marie Loh Chiew Shia
Analysis and integration of high-throughput omics data (genetics, epigenetics, transcriptomics, metabolomics) across different platforms (array- and NGS- based), with the endpoint of development of new strategies for prediction, prevention and treatment of chronic diseases; Disease risk and outcome between different ethnicities; Specific interest in dermatological and cardiometabolic diseases.