

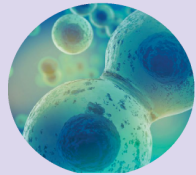
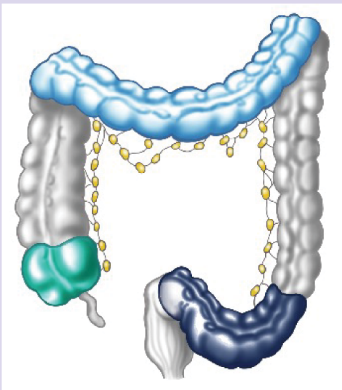
# Immunogenomics of Inflammatory Bowel Disease

## James Lab, Garvan Institute of Medical Research



We are interested in...

1. The Tissue contexts and environmental factors (bile acids, microbiota) underpinning inflammatory bowel disease and colorectal cancer



Key Techniques:

Shotgun sequencing to define bacterial species

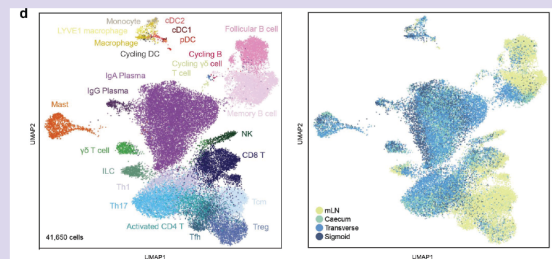
Single-cell RNA sequencing of immune cells

3. How the cell landscape transitions from inflammation to cancer

Key Techniques:

Single-cell RNA sequencing

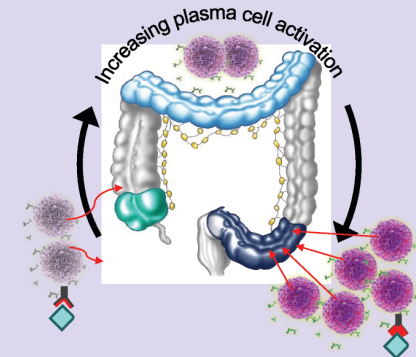
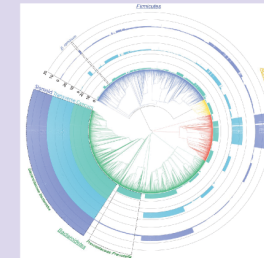
Bioinformatics



Kylie (left) & Jac (right)

Looking for a student to join our team!

2. Antibody responses to bacterial species in gut health and disease



Key Techniques:

Wet lab sample preparation

Flow cytometry

