

# Walmsley Group

## Research goal

Identify tissue-specific factors that can be targeted to limit detrimental inflammation whilst preserving systemic immunity

## Specific Aims:

- Characterise neutrophil adaptation to oxygen and metabolite availability
- Determine how hypoxia (HIF/PHD pathway) reprograms neutrophil energy production
- Define how neutrophil access to internal energy stores determines inflammation outcomes
- Delineate mechanisms of long-term reprogramming of neutrophil function

# Regulation of neutrophilic inflammation by oxygen and metabolite sensing pathways

