

Dockrell Group

- The basis of susceptibility and resilience to common infections is poorly understood.
- MACROPHAGES are the resident ALVEOLAR tissue phagocytes first responding to infections in the lung
- We study responses that influence infection outcome including:
 - Phagocytosis pathways
 - Microbicidal generation
 - Cell death paradigms
 - Pathogen sensing
 - Induction and regulation of inflammation
- Microbicidal responses are often the bottleneck defining outcome
- We aim to recalibrate these host responses to develop host-based therapy to combat antimicrobial resistance.
- We also study how impaired host responses lead to aberrant inflammatory trajectories e.g. in Covid-19 utilizing CL3 facilities

Macrophage roles in susceptibility to infection

