# The Biochemical Society

***Presents:***

# Professor David Brough


## Research Summary

- Senior lecturer at the University of Manchester
- Research focuses on understanding the molecular and cellular mechanisms that contribute to inflammation
- Specific interests in the processing and secretion of IL-1 family members and intracellular roles of IL-1

## Latest Publications

Chloride regulates dynamic NLRP3-dependent ASC oligomerization and inflammasome priming. *PNAS, 2018.*

Targeting the IL33–NLRP3 axis improves therapy for experimental cerebral Malaria. *PNAS, 2018.*

Redefining the ancestral origins of the interleukin-1 superfamily. *Nature Communications, 2018.*

Small, Thin Graphene Oxide Is Anti-Inflammatory Activating Nuclear Factor Erythroid 2-Related Factor 2 (NRF2) Via Metabolic Reprogramming. *ACS Nano, 2018.*

Development of a characterised tool kit for the interrogation of NLRP3 Inflammasome-dependent responses. *Scientific Reports, 2018.*