# Promoting immunology research in Yorkshire

13 May 2025

Department of Biology, University of York, UK

11:45 | Registration and refreshments

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12:15 | Introductory remarks: Dr Ioannis Kourtzelis, University of York, UK

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12:20 | **NULISA-an ultra-sensitive proteomics platform for the earliest detection of disease & precision medicine**
*Sponsor talk*: Tom Burley, Alamar Biosciences, UK

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**Session 1: Host-pathogen interactions**
Chair: Dr James Hewitson, University of York, UK

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12:35 | **A systematic study of extracellular host:parasite protein interactions to identify new immunomodulatory pathways during helminth infection**
*Invited speaker*: Dr Cecile Crosnier, University of York, UK

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12:50 | **B cell immunity during infectious cardiomyopathy**
*Invited speaker*: Dr Damián Pérez-Mazliah, University of York, UK

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13:05 | **Virus-like particles: Future vaccines and therapeutics**
*Invited speaker*: Dr Keith Grehan, University of Leeds, UK

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13:20 | **Type I interferon responses contribute to immune protection against mycobacterial infection**
*Invited speaker*: Dr Gillian Tomlinson, University of Sheffield, UK

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**Flash talks**:

13:35 | **Ontogeny-independent expression of LPCAT2 in granuloma macrophages during experimental visceral leishmaniasis**
Dr Shoumit Dey, University of York, UK

13:40 | **Discovering new therapeutic targets by systematic genome scale human receptor interaction screening: Identifying Human CD200 Receptor as a target for immunoregulation by pathogens**
Dr Cristina Viola, University of York, UK

13:45 | **Unveiling the differences in adaptive immune response to staphylococcal protein A that are associated with specific clinical conditions**
Alex Bear, University of Sheffield, UK

13:50 | **Modulating macrophage phenotypes in a zebrafish infection model**
Zoë Speirs, University of Sheffield, UK

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13:55 | Refreshment break, poster session and meet the exhibitors

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**Session 2: Immune regulation in haematology**
Chair: Dr Jillian Barlow, University of York, UK

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14:35 | **Chronic schistosomiasis alters haematopoiesis through type 1 and 2 immune responses**
*Invited speaker*: Dr Shinjini Chakraborty, University of York, UK

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14:50 | **Exploring the bone marrow ecosystem - how macrophages influence haematopoietic stem cell dynamics**
*Invited speaker*: Dr Alyssa Cull, University of York, UK

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15:05 | **That's not IGH! Insertional diversification in chronic lymphoproliferative disorders**
*Invited speaker*: Dr Amelia Fisher, University of Leeds, UK

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**Flash talks**:

15:20 | **Malat1 controls Th2 differentiation in a sex specific manner**
Mags Gwynne, University of York, UK

15:25 | **Plasma cell parkour: Harnessing myeloma oncogenes to drive cell cycle re-entry**
Ben Kemp, University of Leeds, UK

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15:30 | Refreshment break, poster session and meet the exhibitors

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**Session 3: Immune regulation in skin**
Chair: Dr Clive McKimmie, University of Leeds, UK

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16:00 | **Inflammasomes in skin health and disease**
*Invited speaker*: Dr Kim Robinson, University of York, UK

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16:15 | **The role of fibroblasts and keratinocytes communication for inducing the type I IFN and STAT3 activation in the skin**
*Invited speaker*: Dr Begona Caballero Ruiz, University of Leeds, UK

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16:30 | **Chemokine receptors in the orchestration of the inflammatory response**
*Keynote Speaker*: Professor Gerard Graham, University of Glasgow, UK

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17:30 | Concluding remarks: Dr Ioannis Kourtzelis, University of York, UK and Dr Gina Doody University of Leeds, UK

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17:45 | Close

# Flash talks and poster presentations

P.01 **Ontogeny-independent expression of LPCAT2 in granuloma macrophages during experimental visceral leishmaniasis**
Dr Shoumit Dey, University of York, UK

P.02 **Discovering new therapeutic targets by systematic genome scale human receptor interaction screening: Identifying Human CD200 Receptor as a target for immunoregulation by pathogens**
Dr Cristina Viola, University of York, UK

P.03 **Unveiling the differences in adaptive immune response to staphylococcal protein A that are associated with specific clinical conditions**
Alex Bear, University of Sheffield, UK

P.04 **Modulating macrophage phenotypes in a zebrafish infection model**
Zoë Speirs, University of Sheffield, UK

P.06 **Malat1 controls Th2 differentiation in a sex specific manner**
Mags Gwynne, University of York, UK

P.07 **Plasma cell parkour: Harnessing myeloma oncogenes to drive cell cycle re-entry**
Ben Kemp, University of Leeds, UK

# Poster presentations

P.08 **Intrinsic Folding Properties of the HLA-B27 Heavy Chain Revealed by Single Chain Trimer Versions of Peptide-Loaded Class I Major Histocompatibility Complex Molecules**
Jonathan Armstrong, University of St Andrews, UK

P.09 **Ibrutinib enhances the bias of T cell responses towards staphylococcal superantigens sustaining inflammation in chronic lymphocytic leukaemia**
Dr Stefano Caserta, Hull York Medical School, University of Hull, UK

P.11 **Schistosoma mansoni granulin: novel ligand of neutrophil CD177 with immunomodulatory potential**
Martin Majer, University of York, UK

P.12 **Intracortical Microstimulation Induces Rapid Microglia Process Convergence**
Nathaniel P Williams, University of Pittsburgh, USA

P.13 **Resurrecting the Ancient Glycome to explore the natural anti-Neu5Gc antibody response**
Esme Hutton, University of York, UK

P.14 **Spatial Transcriptomic Mapping of the Wound Microenvironment: Unravelling Molecular and Gene Expression Correlates of Senescence in Chronic Wound Repair**
Lauren Colborn, Hull York Medical School, UK

P.15 **Discovering new immunotherapeutic targets using malaria parasites**
Joe P. Whitehead, Hull York Medical School, UK

P.16 **Probiotic Modulation of Macrophage and T Cell Responses in Infection-Induced Inflammation**
Jevan Terry, University of Hull, UK

P.17 **Novel interactions between highly variable Plasmodium falciparum RIFINs and human immunomodulatory receptors**
Vincent Geoghegan, University of York, UK

P.18 **Investigation of agrin as a novel caspase-4 substrate**
Ella Barrett, University of York, UK

P.19 **Investigating Innate Lymphoid Cells in the context of Haematological Malignancies**
Jadie Acklam, University of York , UK

P.20 **Macrophage-derived developmental endothelial locus 1 (DEL-1) expression promotes an immunoprotective phenotype in experimental visceral leishmaniasis**
Jessie Zenga, Hull York Medical School, University of York, UK

P.21 **Innate urothelial response to BK Polyomavirus drives interferon-mediated APOBEC3A mutational damage.**
George H. Hatton, York Biomedical Research Institute, UK

P.22 **Macrophage phagocytosis as a modulator of trained innate immunity - dependent tumour suppression**
Alexandros Chatzis, Hull York Medical School, University of York, UK

P.23 **Exploring the role of microRNA in Acne Vulgaris**
Ali Deghany, University of York, UK

P.24 **It takes two to tango: Ferroptosis and pyroptosis control response to intracellular LPS**
Ruth Gibbons, University of York, UK

P.25 **Novel Cell-autonomous mechanisms controlling intracellular bacterial infections**
Catherine Harper, University of York, UK

P.26 **Cell death modalities and infections**
Adam Sung, University of York, UK

P.27 **Innate recognition of PAMPs**
Barwin Viswanthan, University of York, UK

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