

**SIGNET 2026**  
**Scottish Immunology Groups Network symposium**  
11 March 2026

Perth Concert Hall, Perth

09:00 | Registration

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09:40 | Welcome

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**SESSION 1**

Chairs: Martina Mesiarikova, University of Aberdeen, UK and Dr Piotr Janas  
University of Edinburgh, UK

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09:50 | **When immunity multitasks: Type 2 pathways power thymus regeneration**

*Keynote speaker:* Professor Graham Anderson, University of Birmingham, UK

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10.25 | **Ankyrons®: Next generation binding reagents beyond antibodies**

*Sponsor talk:* Maya Cowans, ProImmune Limited, UK

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10.35 | **Immunomodulation and vaccination in intestinal parasites**

*Invited speaker:* Dr Henry McSorley, University of Dundee, UK

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10:55 | Refreshment break

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**SESSION 2**

Chairs: Dr Anna Andrusaite, University of Edinburgh, UK and Alex Young,  
University of Glasgow, UK

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11:25 | **Breaking the glycan code: How cell cycle timing reveals novel lectin checkpoint regulation of T-cell-mediated killing**

*Selected abstract talk:* Martina Mesiarikova, University of Aberdeen, UK

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11:35 | **Chronic alterations in splenic B cells persisting after stroke are associated with the stromal niche and microenvironmental changes**

*Selected abstract talk:* Dr Oliver Teenan, University of Edinburgh, UK

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11:45 | **The role and regulation of cholesterol metabolism in B cell survival and proliferation**

*Selected abstract talk:* Dana Cheung, University of Dundee, UK

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11:55 | **Viral dark matter: Decoding gut virome-host immune interactions in inflammatory disease**

*Invited speaker:* Dr Indrani Mukhopadhyaya, University of Aberdeen, UK

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12:15 | **British Society for Immunology's Annual General Meeting**

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12:35 | Lunch (poster session 13:05-14:05 - please stand at your posters during this time)

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### SESSION 3

Chairs: Srishti, University of Dundee, UK and Sam McVey, University of Aberdeen, UK

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14:05 | **The role of persistent antigen in sustaining lung CD8 memory T cells**

*Selected abstract talk:* Jack McCowan, CRUK Scotland Institute, Glasgow, UK

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14:15 | **Diverse lung challenges elicit a conserved monocyte-to-macrophage differentiation blueprint**

*Selected abstract talk:* Dr Isobel Mouat, University of Glasgow, UK

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14:25 | **Decoding sunshine: Multi-omic dissection of UV-associated immune reprogramming in humans**

*Selected abstract talk:* Jiayue Gu, University of Edinburgh, UK

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14:35 | **Hypoxia: why we O2 care**

*Invited speaker:* Dr Ananda Mirchandani, University of Edinburgh, UK

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14:55 | Refreshment break

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## **SESSION 4**

Chairs: Jack McCowan, University of Glasgow, UK and Dr Chloe Shepherd  
University of Dundee, UK

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15:25 | **Understanding tissue immunology in the fight against inflammatory diseases**

*Invited speaker:* Dr Chris Mahony, University of Glasgow, UK

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15:45 | **Cellular dynamics in chronic lung disease: The neglected B cell axis**

*Keynote speaker:* Dr Madhvi Menon, University of Manchester, UK

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16:20 | Closing remarks and poster prizes

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16:30 | Networking reception and posters

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17:45 | Close

## Poster presentations

**P.01 Pannexin 1–released apoptotic metabolites regulate immune cell recruitment and tissue repair following injury**

Anna Davey, University of Edinburgh, UK

**P.02 RNA-protein Interaction and Translation Regulation in Ageing Immune Functions**

Thomas Tan, University of Edinburgh, UK

**P.03 Divergent Dendritic Cell Maturation and Cytokine Programming across Group A Streptococcus Clinical Variants**

Sowmya Ajay Castro, University of Dundee, UK

**P.04 Inflammation leads to disrupted development in the mammary gland**

Gillian J Wilson, University of Glasgow, UK

**P.05 Single cell proteomic analysis defines discrete neutrophil functional states in human glioblastoma**

Alejandro Brenes, University of Edinburgh, UK

**P.06 Characterising the impact of novel microbial-specific light mediated approaches for treating microbial keratitis on the cornea**

A J Boyland, University of Edinburgh, UK

**P.07 Comparative transcriptomic analysis reveals shared senescence-associated inflammatory signatures in renal and cardiac cells**

Samuele Di Carmine, University of Edinburgh, UK

**P.08 The impact of the cytokine environment and direct viral infection in shaping basal cell-driven repair of the respiratory epithelium**

Cecilia McCann, University of Edinburgh, UK

**P.09 Long-range consequences of intestinal helminth infection**

Dora Moffatt, University of Edinburgh, UK

**P.10 Exploring TMEM154 Function in Maedi Visna Virus Resistance for the Establishment of a Breeding Selection Programme**

Susanna Ó Raghallaigh, Moredun Research Institute, UK

**P.11 Activin signalling by intestinal monocytes is indispensable for epithelial barrier repair**

Elizabeth Thompson, University of Glasgow, UK

**P.12 The impact of prenatal stress on fetal lung mast cells**

Holly Tinsley, University of Edinburgh, UK

**P.13 Fibroblast subtypes, macrophage infiltration and matrix alterations in allergic airway pathology**

Morgan Bryant, University of Aberdeen, UK

**P.14 It takes two: exploring the functions of CD163+ and CD11c+ macrophage subsets in the homeostatic and post-irradiation salivary gland**

Erin Watson, University of Edinburgh, UK

**P.15 Epithelial Memory After Respiratory Viral Infection in Mice Results in Prolonged Enhancement of Antigen Presentation**

Piotr Janas, University of Edinburgh, UK

**P.16 Vascular remodelling in allergic airway inflammation and pathology**

Andrew Love, University of Aberdeen, UK

**P.17 5-Azacytidine enhances resolution of inflammation and modulates Ly6Chigh monocytes in a TET2-mutant model of pneumonia**

Calum A Bane, University of Aberdeen, UK

**P.18 Increasing Dendritic Cell Infiltration in Colorectal Carcinoma: Unravelling the Signals for Required for Enhanced Immunotherapy Responses**

Alex Young, CRUK Scotland Institute, UK

**P.19 Tryptophan metabolism shapes intestinal barrier inflammation and integrity during Schistosoma mansoni infection**

Anna Andrusaite, University of Edinburgh, UK

**P.20 Bone marrow neutrophil reprogramming contributes to NET-associated blood-brain barrier injury in pediatric cerebral malaria**

Charalampos Attipa, University of Edinburgh, UK

**P.21 Heterogeneity within memory CD4 T-cell populations in the influenza virus infected lung**

Clíodhna Daly, University of Glasgow, UK

**P.22 Macrophage Heterogeneity and Epithelial Regeneration in Lung Repair and Fibrosis**

Wai Yi Tse, University of Edinburgh, UK

**P.23 The role of TGMs in macrophages**

Alba Maestro Lorenzo, University of Glasgow, UK

**P.24 Investigating the cellular interactions of macrophages and T cells in alopecia areata.**

Rona McNairn, University of Glasgow, UK

**P.25 A mouse pathobiont protects against DSS colitis via CD4+ T cells**

Anna Ahlback, University of Glasgow, UK

**P.26 Allergic airway inflammation alters myeloid cell phenotypes within the murine lung**

Matthew O Burgess, University of Aberdeen, UK

**P.27 Lung Natural Killer cells make a muted type I Interferon response following a second influenza A virus infection**

David Todd, University of Glasgow, UK

**P.28 ACKR3 regulates CXCL12-dependent migration of peritoneal macrophages**

Ayumi Fukuoka-Suzuki, University of Glasgow, UK

**P.29 Elucidating the Immunomodulatory Mechanism of Dithranol in Alopecia Areata via Blood-Based In Vitro Assays**

Adithya Ashok, University of Glasgow, UK

**P.30 Prevalence and predictors of hepatitis B virus infection among sellers and workers at West Africa's largest market, Kejetia, Ghana: a cross-sectional study**

Clinton Owusu Boateng, Kumasi Centre for Collaborative Research in Tropical Medicine, Ghana

**P.31 Schistosomiasis drives regional changes in intestinal myeloid populations**

Vivien Shek, University of Edinburgh, UK

**P.32 IL-25 Suppression by Secretins of a Parasitic Nematode**

Jamie Gelly, University of Dundee, UK

**P.33 Anti-Inflammatory Neutrophil Functions in Rheumatoid Arthritis**

Alfie Sanderson, University of Edinburgh, UK

**P.34 TFH cells in a Th2 context have high lipid metabolism which regulates CXCR5 expression**

Zenuida Mortuza, University of Edinburgh, UK

**P.35 Metabolic Reprogramming of Tumour-Associated Macrophages by TripleNegative Breast Cancer Cells and Its Modulation by PTP1B Inhibition**

Isabella Mezzani, University of Aberdeen, UK

**P.36 Intestinal virome transcytosis drives innate immune activation in Metabolic Dysfunction-Associated Steatotic Liver Disease**

Sam McVey, University of Aberdeen, UK

**P.37 Characterising the binding and opsonophagocytic activity of monoclonal antibodies as a novel therapeutic for the treatment of invasive candidiasis**

Steven McPherson, University of Aberdeen, UK

**P.38 Immunogenicity of Helminth Proteins Associated with Heparin-Sulfate Binding**

Nicole Ong, University of Dundee, UK

**P.39 The contribution of Kupffer cells and gut macrophages to the progression of acute liver injury**

Aanya Patel, University of Edinburgh, UK

**P.40 Mitochondrial quality control meets antiviral defence: PINK1–MAVS crosstalk links innate immunity and mitophagy in macrophages.**

Srishti S, MRC PPU, University of Dundee, UK

**P.41 Investigating the effect of WDFY4 on endosomal trafficking of antigen in cDC1s**

Tara Lorimer, CRUK Scotland Institute, UK

**P.42 Deciphering the role of lymph node immune memory in cancer metastasis**

Kunal Amit Reshamwala, CRUK Scotland Institute/University of Glasgow, UK

**P.43 From cases to adventures: using gamified case-based learning for enhancing Immunology teaching**

Virtu Solano-Collado, University of Aberdeen, UK

**P.44 A Mechanistic Understanding of Fuelling Plasma Cells**

Anna Brock, University of Dundee, UK

**P.45 How TLR Signals Influence Antigen Trafficking and Cross-Presentation in cDCs**

Hannah Henderson, University of Glasgow, UK and CRUK Scotland Institute, UK

**P.46 CFTR modulators alter macrophage function and Aspergillus fumigatus growth**

Elisia Josiah, University of Aberdeen, UK

**P.47 Immune control of the provisional matrix: macrophage regulation of fibroblast dynamics and hyaluronan in asthma**

Anton Pospelov, University of Aberdeen, UK

**P.48 Pharmacological modification of muscarinic pathways via pilocarpine disarms neutrophils during fungal challenge**

Leonie Fingerhut, University of Edinburgh, UK

**P.49 Directed modulation of TGF $\beta$  signalling using helminth derived TGF $\beta$  mimic-ST2 fusion proteins**

Gregor Fisher, University of Dundee, UK

**P.50 Translational High Throughput Adjuvant Screening Pipeline**

Utku Gunes, University of Glasgow, UK

**P.51 Loss of TGF $\beta$ R signalling leads to alveolar macrophage ‘de-differentiation’ and inflammatory reprogramming**

Sam Bankole, University of Edinburgh, UK

**P.52 Understanding mechanisms of prostate mediated immune evasion and suppression**

Poppy Brown, CRUK Scotland Institute/University of Glasgow, UK

**P.53 Identifying germline encoded antigens in colorectal organoids to develop cancer vaccination approaches**

Gerda Dlugabarskaite, CRUK Scotland Institute, UK

**P.54 Induction of pulmonary type 2 responses by the helminth Schistosoma mansoni**

N L Wąsowska, University of Edinburgh, UK

**P.55 Profiling HMGB1 during chronic airway disease exacerbations using sputum proteomics: results from the EMBARC-BRIDGE study**

Hannah Dickson, University of Dundee, UK

**P.56 You can’t choose your neighbours: Understanding salivary gland macrophage crosstalk to aid regeneration**

Lizi Hegarty, University of Edinburgh, UK

**P.57 Does critical illness-induced hypoxia drive long-lasting immune dysfunction and morbidity by shaping the mononuclear phagocyte landscape?**

Mila Redzic, University of Edinburgh, UK

**P.58 The Cellular Analysis Facility at the University of Glasgow**

Leandro Lemgruber, University of Glasgow, UK

**P.59 Breaking the Glycan Code: How Cell Cycle Timing Reveals Novel Lectin Checkpoint Regulation of T-cell-mediated killing**

Martina Mesiarikova, University of Aberdeen, UK

**P.60 The role of persistent antigen in sustaining lung CD8 memory T cells**

Jack McCowan, CRUK Scotland Institute, UK

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