

BSI Midlands Immunology Group Symposium:

8 June 2023 College Court Conference Centre, Leicester

09:00	Registration
10:00	Welcome
	Session I: Innate Immunity Chairs: Dr David Bending, University of Birmingham, UK and Georgina Hopkins, University of Nottingham, UK
10:05	Vaccine Adjuvants: where they go, how they get there, what they do and why should you care? Professor James Brewer, University of Glasgow, UK (KEYNOTE SPEAKER)
10:35	A role for human splenic tissue macrophages during the earliest phases of invasive disease Marco Oggioni, University of Leicester, UK (Selected short talk)
10:45	Vancomycin disrupts macrophage antifungal immunity Ebrima Bojang, University of Birmingham, UK (Selected short talk)
10:55	Brain-specific immune responses during fungal meningitis Dr Rebecca Drummond, University of Birmingham, UK (Invited speaker)
11:15	Refreshment break and meet the exhibitors
	Session II: Translational Immunology Chairs: Professor Lucy Fairclough, University of Nottingham, UK and Dr Martin Davey, University of Warwick, UK
11:50	Tales of tissue immunity Professor Menna Clatworthy, University of Cambridge, UK (KEYNOTE SPEAKER)
12:20	Complement and inflammatory marker analysis in women with obstetric antiphospholipid syndrome (OAPS) Dr Danai Bagkou Dimakou, University of Birmingham, UK (Selected short talk)



12:30	Large E-cadherin+ CD103+ CD8+ T cells invade biliary epithelial cells through interactions with β -catenin	
	Dr Scott P Davies, University of Birmingham, UK (Selected short talk)	
12:40	Sulfation at glycopolymer side chains switches activity at the macrophage mannose receptor (CD206) in vitro and in vivo; implications for CD206-targeted therapies	
	Dr Luisa Martinez-Pomares, University of Nottingham, UK (Invited speaker)	
13:00	Lunch, exhibition, and poster session from 13:45 to 14:30	
	Session III: Adaptive Immunity	
	Chairs: Dr Rebecca Drummond, University of Birmingham, UK and Dr Zhi Li, University of Birmingham, UK	
14:30	Differences between CD80 and CD86 affect both the CTLA-4 and PD-1 checkpoints	
	Professor David Sansom, University College London, UK (KEYNOTE SPEAKER)	
15:00	Blockade of lag3 synergizes responses to anti-PD-L1 through increasing duration of T cell receptor signalling	
	Dr Lozan Sheriff, University of Birmingham, UK (Selected short talk)	
15:10	Phosphoinositide acyl chain saturation drives CD8+ effector T cell signaling and function Dr Joy Edwards-Hicks, University of Cambridge, UK (Selected short talk)	
15:20	Activated tissue resident memory T-cells (CD8+CD103+CD39+) uniquely predict survival in left sided "immune-hot" colorectal cancers	
	Dr Judith Ramage, University of Nottingham, UK (Invited speaker)	
15:45	Closing remarks and prizes	
16:00	Networking reception	
17:00	Close	



Poster presentations

P.01	Using fluorescent ligands as flow cytometry probes: a study of adenosine receptor subtypes expression in human macrophages Foteini Patera, University of Nottingham, UK
P.02	Streptococcus uberis exploits NLRP3 inflammasome activation in disease pathogenesis: the role of the cell envelope serine protease SUB1154 Abbie Tomes, University of Nottingham, UK
P.03	The impact of ruxolitinib and tocilizumab on IL-6 evoked phospho-STAT3 induction across human immune cell subsets Omar S. Qureshi, University of Birmingham, UK
P.04	Effect of GM-CSF on the immune response of human monocytes against C. albicans Khawalah Abid Munshi, University of Nottingham, UK
P.05	A family-wide assessment of latent STAT transcription factor interactions reveals divergent dimer repertoires Uwe Vinkemeier, University of Nottingham, UK
P.06	Exploring Affinity-Dependent Metabolic Imprinting of Anti-Viral T Cell Responses Hannah Bollons, University of Birmingham, UK
P.07	Hypoxia impairs CD8+ T cell effector function and metabolic reprogramming Fulton-Ward T, University of Birmingham, UK
P.08	Impaired macrophage phagocytosis of non-typable Haemophilus influenzae in older adults is associated with reduced CD36 expression Kylie Belchamber, University of Birmingham, UK
P.09	Therapeutic potential of a multi-tumour antigen peptide vaccine for hard-to-treat cancers Carles Puig-Saenz, Nottingham Trent University, UK
P.10	Therapeutic efficacy of a prostatic acid phosphatase (PAP) derived peptide-based vaccine administered with CAF®09b adjuvant tested in HHDII/DR1 and C57BL/6 mice J.E. Thomas, Nottingham Trent University, UK
P.11	Engineering amino acid uptake promotes CAR T-cell adaption to the tumour environment Nicola McJannett, University of Birmingham, UK
P.12	Re-wiring of TCR signalling pathways during CD8 T cell exhaustion Thomas Elliot, University of Birmingham, UK
P.13	Preventing graft-versus-host disease by redirecting TREG specificity with TCR retroviral transduction Elif Yildiz, University of Birmingham, UK
P.14	Mass Cytometry at The University of Birmingham Flow Cytometry Facility: Supporting Researchers' Needs across the Midlands and the UK Shahram Golbabapour, University of Birmingham, UK



P.15	The University of Birmingham Flow Cytometry Facility: Supporting Flow Cytometry Researchers' Needs across the Midlands and the UK Shahram Golbabapour, University of Birmingham, UK
P.16	Application of Tg4 Nur77-Tempo mice to identify effective immunotherapy combinations Emma K Jennings, University of Birmingham, UK
P.17	Mapping the immune landscape: Optimising the multiplex immunohistochemistry images of Tissue-Resident Memory T cell in Breast Cancer Qianya Xu, University of Nottingham, UK
P.18	Blood Leukocyte Characterisation in Eosinophilic Granulomatosis with Polyangiitis (EGPA) Dale R, University of Leicester, UK
P.19	Defining the surface proteome of apoptotic cell-derived extracellular vesicles Rachel Butler, Aston University, UK
P.20	Increased IEL expansion following Salmonella infection in NAIP-deficient mice Scarfe L., University of Birmingham, UK
P.21	Fancy a cigarette? Addressing the need of an ethically sound mouse model to define the immunopathophysiological mechanisms of cigarette smoke-induced chronic obstructive pulmonary disease (COPD) Laura Bartlett, University of Nottingham, UK
P.22	Therapeutic STm∆aroA preferentially invade proliferating cells in human colorectal cancer Gillian Mackie, University of Birmingham, UK
P.23	Exploiting immune cells by Multiplex to improve the Immune score in colorectal cancer Zhiyuan Cheng, University of Nottingham, UK
P.24	Long-chain fatty acid uptake from the bone marrow microenvironment suppresses T cell function in Multiple Myeloma Gudgeon N, University of Birmingham, UK
P.25	Optimising the multiplex immunohistochemistry images of macrophages in Breast Cancer Shakhnoza Jumaniyazova, University of Nottingham, UK
P.26	Maternal Vaccination against Streptococcus pneumoniae leads to long-lasting immunity to offspring Jamie Pillaye, University of Birmingham, UK
P.27	NRK1 fine-tunes NAD(P)/H, glutathione and reactive oxygen species abundance during CD4+ T cell activation to regulate their function and exhaustion Victoria Stavrou, University of Birmingham, UK
P.28	Neuroimmunology of cryptococcal meningitis: exploring the roles of CNS-localized myeloid cells in T-cell responses Man Shun Fu, University of Birmingham, UK
P.29	Immature granulocyte counts and red cell distribution width may be used to predict survival outcome in alcoholic hepatitis Reenam Shamim Khan, University of Birmingham, UK
P.30	Towards a B cell Vaccine for Tumour expressed Self-Antigens F. Escobar-Riquelme, University of Birmingham, UK

SARS-CoV-2 variant infection of liver epithelial cells

Marcin Kowalczyk, University of Birmingham, UK

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