2020 UK NATURAL KILLER CELLS WORKSHOP PROGRAMME

09:30  Registration and coffee
10:00  Welcome and introduction

Session 1: NK cell receptors and pregnancy

10:10  Dissection of KIR2DL2 and HLA-C allele combinations which modulate susceptibility to pre-eclampsia differently in Europeans and Africans
James Traherne (University of Cambridge, UK)

10:30  Immunological adaptation of NK cells during pregnancy
Ben Jenkins (Swansea University, UK)

10:50  Distinctive phenotypes and functions of innate lymphoid cells in human decidua during early pregnancy
Andrew Sharkey (University of Cambridge, UK)

11:10  Coffee break

Session 2: Regulation of metabolism and NK cell function

11:40  Investigating the metabolic pathways that are crucial for Natural Killer cells responses
David Findlay (Trinity Biomedical Sciences Institute, Trinity College, Dublin, Ireland)

12:00  Sterol Regulatory Element Binding Proteins (SREBPs) are essential for Natural Killer cell metabolic and effector responses
Katie O’Brien (Trinity College Dublin, Ireland)

12:20  SREBP transcription factors are essential for NK cell metabolism and effector function
Chloe Choi (Trinity College Dublin, Ireland)

12:40  Lunch

Session 3: NK cells in infection and tumour targeting

14:00  Antibody dependent activation of adaptive NK cells by Plasmodium falciparum is IL-18 independent.
Martin R Goodier (London School of Hygiene and Tropical Medicine, UK)

14:20  Identification of an NK inhibitory function by an HCMV protein of the RL11 family
Rich Stanton (University of Cardiff, UK)

14:40  ADCC-enhanced antibody augments CD16-mediated serial killing and cytokine secretion by NK cells
Alexandros Karampatzakis (University of Manchester, UK)

15:00  Biochemical regulation of Tim-3-galectin-9 immunosuppressive pathway which determines the ability of human cancer and embryonic cells to suppress cytotoxic activities of NK and T cells
Vadim Sumbayev (University of Kent, UK)

15:20  Coffee break

Session 4: NK cells in cancer and applications

15:50  KIR2DS2 recognises an HLA-C bound peptide that is upregulated in cancer
Matthew Blunt (University of Southampton, UK)

16:10  Biofunctionalised Nanographene Oxide for Murine NK Cell Activation
Helena Dodd (Imperial College London, UK)

16:30  Radiotherapy induces resistance to NK cell cytotoxicity
Karoliina Tuomela (University of Manchester, UK)

16:50  Wrap up and networking reception (in breakout room)

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