UNIVERSITY OF
CAMBRIDGE
Department of Medicine

Research Day

Friday 15th September 2023

Pembroke College, Cambridge

8:30 Registration and Tea/Coffee available in the Conference Centre Foyer

9.00 **Welcome: Professor John Sinclair,** *Main Auditorium*

Session 1

9.05 James Taylor
PhD Student (Jorgensen)
Evidence for a novel vascular smooth muscle cell transdifferentiation pathway that underlies fibrous cap formation in atherosclerotic plaques

9.20 Isobel Ramsay
PhD Student (Matheson)
A quantative real-world correlate of protection against SARS-CoV-2

9:35 Paul Carter
PhD Student (Clarke)
Clonal Haematopoiesis Driver Mutations Have Disparate Effects On Macrophage Cytokine Profiles And Only Modestly Drive Atherogenesis At Pathophysiological Levels

9.50 **PI Talk – Sam Wilson**

10.10 ***Tea & Coffee***

Session 2

10:40 Karolina Kostrzyńska
PhD Student (Wei Li)
Investigating the therapeutic potential of recombinant BMP10 in an adult mouse model of hereditary hemorrhagic telangiectasia

10:55 Semih Bayraktar
PhD Student (Sinha)
Cells of the developing human heart and the great vessels

11.10 Despina Giakomidi
Postdoc (Nus)
Mitochondrial dysfunction increases atherosclerosis by affecting T follicular helper cell differentiation

11:25 **Keynote Talk – John Sinclair**

11:55 Equality and Diversity in the Department of Medicine
Jane Goodall and Ben Krishna

12:00 ***Lunch and Posters***

Session 3

13:30 Aaron Fleming
PhD Student (Clatworthy)
Intestinal challenges shape the polarisation of protective dural memory CD4 T cells

13:45 Delphine Cuchet-Lourenço
Postdoc (Nejentsev)
Human Regnase-1 mutation causes severe immunodeficiency associated with autoimmune disease

14:00 Hanqi Li
PhD Student (Weekes)
Human cytomegalovirus degrades DMXL1 to inhibit autophagy, lysosomal acidification and viral replication

14:15 **PI Talk – Dave Thomas**

14:35 ***Tea & Coffee***

Session 4 ***Chair: Professor Ken Smith, Main Auditorium***

15:05 Ayden Case
PhD Student (Mallat)
The effect of low dose Interleukin-2 on the T cell receptor landscape in patients with acute myocardial infraction

15:20 Sophie Richter
Postdoc (Newcombe)
Predicting recovery in patients with mild traumatic brain injury and a normal CT using diffusion tensor imaging

15:35 Muhammad Iqbal
PhD Student (Conway Morris)
Temporal Phosphoproteomic analysis of neutrophils during bacterial infection reveals functions related to transcriptional and translational dynamics

15:50 **Keynote Talk – David Menon**

16:20 ***Prizes: Professor John Sinclair and Professor Ken Smith***

16:30 **After event reception**

17:00 **Close**