



## BHF Cambridge Centre Annual Research Symposium

Thursday 20<sup>th</sup> April 2017

Study Centre Suite 2, Møller Centre, CB3 0DE

### **08.30 – 09.00 Registration**

09.00 – 09.10 *Welcome* – Prof Nick Morrell

09.10 – 09.30 *Genetic regulation of cholesterol efflux in macrophages* – Dr Unni Krishnan

09.30 – 09.50 *Why do we need to image arteries?* – Dr James Rudd

09.50 – 10.10 *Mitochondria-targeted therapies for cardiovascular diseases* – Dr Thomas Krieg

10.10 – 10.30 **SHORT TALKS:** *Role of the prolidase PEPD in macrophages and adipose tissue fibrosis in obesity* – Dr Vanessa Pellegrinelli; *SREBP1 and the de novo lipogenesis control alternative macrophage activation* – Dr Guillaume Bidault; *Norepinephrine promotes triglyceride storage in macrophages* – Mr Kasparas Petkevicius

### **10.30 – 11.00 Refreshments**

11.00 – 11.20 *Discovery of rare and common variants associated with blood pressure and hypertension* – Dr Joanna Howson

11.20 – 11.40 *Genetics of cellular thrombotic traits* – Dr William Astle

11.40 – 12.00 **SHORT TALKS:** *Genetic determinants of the human plasma proteome and their role in biology and disease* – Dr Ben Sun; *Genome-wide association study of internal cellular traits* – Mr Parsa Akbari

12.00 – 12.20 *Mapping platelet trait associated variants with DNA long-range interactions reveals super enhancer role in thrombosis* – Dr Mattia Frontini

12.20 – 12.40 *A fast association test for identifying pathogenic variants involved in rare diseases* – Dr Ernest Turro

12.40 – 13.00 **SHORT TALKS:** *Identification of rare variants associated with protein levels using whole exome sequencing data* – Dr Qi Guo; *Functional investigation of genetic determinants of red blood cell traits* – Ms Lisa Schmunk

### **13.00 – 14.20 Lunch & Posters**

14.20 – 14.40 *Developing a human induced pluripotent stem cell based toolkit to model obesity associated metabolic inflammation* – Dr Subhankar Mukhopadhyay

14.40 – 15.00 *From chemistry to clinic: Targeting apelin receptors for cardiovascular disease* – Dr Anthony Davenport

15.00 – 15.20 **SHORT TALKS:** *The role of epoxyeicosatrienoic acids in the regulation of vascular tone* – Dr Lucy Yang; *A novel mechanism for buffering dietary salt in humans: effects of salt loading on skin Na<sup>+</sup>, VEGF-C, and BF* – Dr Viknesh Selvarajah

15.20 – 15.40 *From genetics to new therapies in pulmonary arterial hypertension* – Prof Nick Morrell

15.40 – 16.00 *Aortic disease-in-a-dish: molecular mechanisms and new therapies for aortic aneurysmal syndromes* – Dr Sanjay Sinha

### **16.00 – 16.30 Refreshments**

16.30 – 17.10 *New biology in cardio-metabolic disease revealed through human genetics* – Prof Dan Rader, UPenn

17.10 – 17.20 *Poster competition winners & Closing words* – Prof Nick Morrell

**17.20 – 18.00 Drinks reception**