



The Milner Therapeutics Symposium:  
 Building Collaborations to Transform Therapies  
 25<sup>th</sup> June 2019  
 Cambridge Corn Exchange

08:45 – 09:15	Registration
09:15 – 09:30	Welcome – Tony Kouzarides, WT–CRUK Gurdon Institute & Milner Institute, University of Cambridge
<b>Session 1 Chair: Jason Carroll, CRUK Cambridge Institute, University of Cambridge</b>	
09:30 – 10:00	Greg Hannon, CRUK Cambridge Institute, University of Cambridge Insights from a model of breast tumour heterogeneity
10:00 – 10:30	Róisín Owens, Dept of Chemical Engineering and Biotechnology, University of Cambridge 3D conducting polymer electrodes to host and monitor human organs
10:30 – 11:00	Sara-Jane Dunn, Microsoft Research Programming biology
11:00 – 11:30	<b>Coffee break</b>
<b>Session 2 Chair: Jasmin Fisher, University College London &amp; University of Cambridge</b>	
11:30 – 12:00	Ed Bullmore, Dept of Psychiatry, University of Cambridge Inflammation and depression
12:00 – 12:30	Marcel van Duin, Ferring Pharmaceuticals R&D challenges in reproductive medicine and women's health
12:30 – 13:00	Salvador Aznar-Benitah, IRB, Barcelona Epigenetic influence of our (fatty) diet on metastatic-initiating cells
13:00 – 14:30	<b>Lunch and poster viewing in the Guildhall</b>
<b>Session 3: Parallel tracks</b>	
<b>Session 3a: CNS Therapeutics. Chairs: John Skidmore &amp; Maria Grazia Spillantini (McCrum Lecture Theatre)</b>	
14:30 – 14:45	Introduction – Chairs
14:45 – 15:00	Zoe Kourzti, Dept of Psychology, University of Cambridge Machine learning tools for modelling prognostic trajectories in dementia
15:00 – 15:15	George Malliaras, Dept of Engineering, University of Cambridge Implantable devices for “dry” drug delivery in the brain
15:15 – 15:30	Jeff Dalley, Depts of Psychology & Psychiatry, University of Cambridge A preclinical platform for immune target discovery in early life stress and depression
15:30 – 15:45	Maria Grazia Spillantini, Dept of Clinical Neurosciences, University of Cambridge Tackling protein aggregation to treat Parkinson's disease
15:45 – 16:00	Michael Jones, Cell Guidance Systems Delivering Treatment of Parkinson's Disease
16:00 – 16:15	Evan Reid, Cambridge Institute for Medical Research, University of Cambridge Understanding cellular mechanisms of axonopathy in hereditary spastic paraplegias
<b>Session 3b: Oncology. Chairs: Rebecca Fitzgerald &amp; Rab Prinjha (Main auditorium, Corn Exchange)</b>	

14:30 – 14:45	Introduction – Chairs
14:45 – 15:00	Gillian Griffiths, Cambridge Institute for Medical Research, University of Cambridge Cancer Assassins: fine-tuning killer cells
15:00 – 15:15	Christian Frezza, MRC Cancer Unit, University of Cambridge Mitochondria and cancer: the emerging paradigm of oncometabolism
15:15 – 15:30	Justin Bryans, LifeArc Genetics – changing the DNA of healthcare
15:30 – 15:45	Rebecca Fitzgerald, MRC Cancer Unit, University of Cambridge What is required to shift cancer diagnosis and therapy towards earlier stage disease
15:45 – 16:00	Frank McCaughan, Dept of Medicine, University of Cambridge Lung cancer chemoprevention - a roadmap
<b>Session 3c: Antimicrobial Resistance and the Microbiome. Chairs: Kai Stoeber &amp; Andres Floto (Guildhall)</b>	
14:30 – 14:45	Introduction – Chairs
14:45 – 15:00	Leo Sánchez Busó, WT Sanger Institute Impact of antimicrobials and sexual behaviour on the spread of gonorrhoea infections
15:00 – 15:15	Andres Floto, Dept of Medicine, University of Cambridge Killing bacteria ourselves
15:15 – 15:30	Sven Sewitz, Eagle Genomics Emerging Challenges and Opportunities in Microbiome Data Analytics
15:30 – 15:45	David Spring, Dept of Chemistry, University of Cambridge Approaches to antibacterial discovery
15:45 – 16:00	Trevor Lawley, Microbiotica & WT Sanger Institute Precision metagenomics microbiome analysis in personalised medicine
<b>Session 3d: Cardiovascular and metabolism. Chair: Sanjay Sinha (Kings Room, Corn Exchange)</b>	
14:30 – 14:45	Introduction – Chairs
14:45 – 15:00	Nick Morrell, Dept of Medicine, University of Cambridge From genetics to new treatments for pulmonary arterial hypertension
15:00 – 15:15	Sanjay Sinha, WT–MRC Cambridge Stem Cell Institute, University of Cambridge 'Disease-in-a-dish' for drug discovery in Marfan syndrome
15:15 – 15:30	Peter Kirwan, WT–MRC Institute of Metabolic Science, University of Cambridge Modelling obesity with human hypothalamic neurons
15:30 – 15:45	Shamina Rangwala, Janssen R&D Novel therapeutics for eating disorders – targeting the GDF15/GFRAL axis and beyond
15:45 – 16:00	Clemence Blouet, WT–MRC Institute of Metabolic Science, University of Cambridge Targeting central metabolic sensing pathways to promote satiety
<b>Session 4: Start-ups and investment in Cambridge (Guildhall)</b>	
16:30 – 17:00	Jonathan Milner (Abcam) and Jason Mellad (Start Codon)
17:00 – 18:30	Drinks and networking