

2022年高层次医学创新人才培养合作奖学金可申请课题列表

Project #	Supervisors	Project Name
1-1	Ricardo Fernandes / Tao Dong	Discovery of potent agonist peptides for tumour-reactive T cells
1-2	Ricardo Fernandes	Enhancing anti-tumor T cell function by controlled inhibition of checkpoint receptor signaling
2	Richard Cornall / Katherine Bull	Revolution in the Cellular Pathology of Kidney Disease
3	Jane McKeating / Tess Lambe / Christopher Schofield	Hypoxia inducible factors: a new therapeutic target for the treatment of respiratory viruses
4	Roman Fischer / Olaf Ansorge	Spatially resolved 3D mass spectrometry for cancer analytics in the human brain
5-1	Doug Higgs	Gene editing and base editing to cure severe forms of alpha thalassaemia
5-2	Doug Higgs	Understanding how superenhancers regulate gene expression
6	David Paterson / Dan Li	Cardiac neurobiology of arrhythmia in human cell models: novel therapeutic targets
7-1	Peijun Zhang	SARS-CoV-2 replication, assembly, and egress
7-2	Peijun Zhang	Imaging HIV-1 nuclear import by in situ cryo-tomography and correlative microscopy
8	Eileen Parkes / Wei Huang	SimCells – characterising a novel platform for targeted immunotherapy
9-1	Gavin Screaton / Juthathip Mongkolsapaya	Characterisation of monoclonal antibodies isolated from human B cells: implication in future SARS-CoV-2 variant vaccines
9-2	Gavin Screaton / Juthathip Mongkolsapaya	Development of a universal vaccine protecting from dengue and zika viruses infection
10	Yvonne Jones	Structural biology of cell surface receptors
11	Andreas Damianou	Profiling innate immune signalling through the Myddosome and IRAKs using proximity labelling
12	John Todd	The interaction between the gut microbiome composition and the host genome
13	Anya Topiwala / Thomas Nichols	Elucidating the body-brain axis using multi-organ population imaging
14	Julian Knight	A multi-omic approach to investigating the host response to severe infection
15	Francesca Buffa / Skirmantas Kriaucionis / Simon Lord	Integrative genomic approaches to evaluate the interaction between the tumour microenvironment, immunity and obesity
16	Oliver Bannard	Investigating the molecular and cellular basis of antibody affinity maturation in germinal centres
17	KJ Patel	Origins of Genotoxic metabolism and the DNA damage response in stem and cancer cells
18	Hal Drakesmith	Iron and the anti-tumour immune response
19	Andrew McMichael / Jane McKeating	Hypoxia and HLA-E antigen presentation