

## 2021年国家留学基金委、中国医学科学院北京协和医学院、英国牛津大学高层次医学创新人才培养合作奖学金可申请课题列表

序号	课题编号	课题名称	导师
1	Project 1-1	T cell immunity in COVID19 infection – Understanding the contribution of antigen specific T cells to SARS-CoV-2 viral control and clinical outcomes.	Ellie Barnes
2	Project 1-2	Defining the hepatic micro-environment in HBV infection under drug treatment	Paul Klenerman
3	Project 2	Spatially resolved 3D mass spectrometry for cancer analytics in the human brain	Roman Fischer
4	Project 3	The molecular basis underpinning Inflamm-aging	Katja Simon
5	Project 4	Genomics of host susceptibility to severe infection	Julian Knight
6	Projects 5	1. Switching on the embryonic globin genes to provide a new treatment for severe alpha thalassaemia 2. Understanding how super-enhancers regulate gene expression 3. Understanding the role of CTCF boundary elements in regulating gene expression	Doug Higgs
7	Project 6	Immunopathogenesis of Covid19 in the lung	William James
8	Project 7	Immunosenescence; Exploration of Vaccine induced Immune Response in Older Adults	Teresa Lambe
9	Project 8-1	Discovery of potent wild-type and surrogate agonist peptides for anti-tumor T-cell receptors	Ricardo Fernades
10	Project 8-2	Enhancing anti-tumor T cell function by controlled inhibition of checkpoint receptor signaling	Ricardo Fernades
11	Project 9	Discovery of host cell targets cleaved by SARS-COV2 Mpro and PLpro proteases	Benedikt Kessler
12	Project 10	Super resolution imaging of SARS-CoV-2 replication and transmission	Jane McKeating
13	Project 11	SARS-CoV-2 replication, assembly, and egress	Peijun Zhang
14	Project 12	Iron and the anti-tumour immune response	Hal Drakesmith
15	Project 13	Dissecting antiviral T cell responses to SARS-CoV-2 in the setting of HIV infection	Sarah Rowland-Jones
16	Project 14	The Transcriptomic and inflammatory phenotype of non-specific pleuritis	Najib M Rahman
17	Project 15	Understanding Correlates of Protection for SARS-CoV-2: Studying naturally acquired and vaccine induced immunity in humans and non-human primates (NHPs)	Miles W Carrol
18	Project 16-1	The epitope abundance-avidity-efficacy axis in cancer	Tim Elliott
19	Project 16-2	Factors that control T cell specificity in successful checkpoint blockade therapy	Tim Elliott
20	Project 17-1	Analyses of paired host-virus genomic data to understand disease heterogeneity of viral infections	Azim Ansari
21	Project 17-2	Understanding mechanisms of sex disparities in infectious diseases	Azim Ansari
22	Project 18	Development of CRISPR/Cas-based gene editing therapies for age-related macular degeneration	Kanmin Xue