

FHB's Health and Medical Research Fund subsidises COVID-19 research (Batch 1 - approved in April 2020)

Key

AI: Administering Institution

CUHK: The Chinese University of Hong Kong

HKU: The University of Hong Kong

PA: Principal Applicant

Group of Research Area

(a) Transmissibility and infectability of the virus

(b) Effective detection and surveillance

(c) Effective clinical management (including rapid diagnosis and treatment)

(d) Enhanced infection control and prevention strategies

(e) Risk of nosocomial infection caused by the virus

(f) Development of resistance to treatment/therapy

No.	Ref. no.	Project title	PA	Department	AI	Research area	Requested amount (HK\$)
1	COVID190103	Characterizing whole genome stability of the novel coronavirus SARS-CoV-2	Prof Maggie WANG	The Jockey Club School of Public Health and Primary Care	CUHK	(a)	\$1,290,743
2	COVID190108	Delineate the prevalence, risk factors, temporal distribution and epidemiological characteristics of hidden novel coronavirus (SARS-CoV-2) infection in the community	Prof Paul CHAN	Department of Microbiology	CUHK	(a)	\$2,995,750
3	COVID190111	Role of gastrointestinal tract and gut microbiota in pathogenesis of coronavirus disease 2019 (COVID-19): A missing site for viral replication & transmission	Prof NG Siew-chien	Department of Medicine and Therapeutic	CUHK	(a)	\$4,076,580
4	COVID190112	SARS-CoV-2 receptor distribution, replication and immune response induced in the respiratory epithelial cells of paediatric and adult and the existence of alternative receptor	Dr CHAN Wan-yi	Department of Paediatrics	CUHK	(a)	\$1,810,820
5	COVID190116	Stability and transmissibility of 2019-nCoV	Prof Leo POON Lit-man	School of Public Health	HKU	(a)	\$1,455,384
6	COVID190118	Nowcasting COVID-19 transmission dynamics, severity, and the effectiveness of control measures	Prof Benjamin COWLING	School of Public Health	HKU	(a)	\$1,157,772
7	COVID190122	SARS-CoV-2 infection dynamics in bat and human cells: tissue tropism and differential host response for elucidation of evolutionary pathway and exploration of potential treatment targets	Dr LUK Kam-hei	Department of Microbiology	HKU	(a)	\$2,998,583
8	COVID190106	Early detection and surveillance of COVID-19 infection by non-invasive ophthalmic evaluations	Prof Kelvin CHONG Kam-lung	Department of Ophthalmology and Visual Sciences	CUHK	(b)	\$4,822,810
9	COVID190120	Development of an enzyme-linked immuno sorbent assay detecting a novel secreted antigen of SARS-CoV-2	Dr KOK Kin-hang	Department of Microbiology	HKU	(b)	\$980,000
10	COVID190124	Long term immunological response and longitudinal seroepidemiology of SARS-CoV-2 in Hong Kong	Dr Kelvin TO Kai-wang	Department of Microbiology	HKU	(b)	\$2,098,150
11	COVID190126	Community based sero-epidemiological study of COVID19 to provide data in real time on age-stratified infection attack rates, disease severity and population-immunity, for guiding intervention policy	Prof Joseph Sriyal Malik PEIRIS	School of Public Health	HKU	(b)	\$28,029,215
12	COVID190121	Discovery and mechanistic evaluation of antiviral treatment options for Coronavirus Disease 2019 (COVID-19) through structure-based drug discovery and drug repurposing approaches	Dr Jasper CHAN Fuk-woo	Department of Microbiology	HKU	(c)	\$4,000,000
13	COVID190125	An open-label randomized controlled trial on interferon β -1b and remdesivir combination versus remdesivir as treatment for COVID-19 infection	Prof Ivan HUNG Fan-ngai	Department of Medicine	HKU	(c)	\$2,999,040
14	COVID190104	Workplace safety towards SARS-CoV-2 among non-healthcare workers in Hong Kong, Nanjing and Wuhan: prevention, response and sustainability	Prof TSE Lap-ah	The Jockey Club School of Public Health and Primary Care	CUHK	(d)	\$2,514,546
15	COVID190105	Investigation of Hong Kong's early detection, assessment and response (S-EDAR) system to the new emerging infectious disease outbreak COVID-19	Prof YEOH Eng-kiong	The Jockey Club School of Public Health and Primary Care	CUHK	(d)	\$2,970,000
16	COVID190114	Development and test of candidate attenuated vaccines for SARS-CoV-2	Prof JIN Dong-yan	School of Biomedical Sciences	HKU	(d)	\$3,000,000
17	COVID190117	Rapid development of anti-SARS-CoV-2 (2019-nCoV) vaccines and exploration of the feasibility of a pancoronavirus vaccine	Prof HUANG Jiandong	School of Biomedical Sciences	HKU	(d)	\$3,202,688
18	COVID190123	Clinical study of flu-based and PD1-based vaccines for the SARS-CoV2	Prof YUEN Kwok-yung	Department of Microbiology	HKU	(d)	\$20,337,934

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19	COVID190101	How high is the risk of environmental contamination and airborne infection of the SARS-CoV-2 virus?	Prof HUNG Chi-tim	The Jockey Club School of Public Health and Primary Care	CUHK	(e)	\$2,984,895
20	COVID190109	To identify asymptomatic carriers through longitudinal follow-up of close contacts of known COVID-19 patients and healthcare workers taking care of these patients	Prof HUNG Chi-tim	The Jockey Club School of Public Health and Primary Care	CUHK	(e)	\$2,699,272
21	COVID190110	The safety of high flow nasal cannula and non-invasive ventilation for treatment of patients with COVID-19 complicated by respiratory failure	Prof David HUI Shu-cheong	Department of Medicine and Therapeutics	CUHK	(e)	\$767,623
22	COVID190113	Understanding transmission risk of SARS-CoV-2 virus in A&E and patient rooms	Prof LI Yuguo	School of Public Health	HKU	(e)	\$2,081,796
23	COVID190119	Longitudinal study of COVID-19 seroprevalence in health care workers in comparison to the general community	Prof Benjamin COWLING	School of Public Health	HKU	(a), (e)	\$2,749,420
24	COVID190102	Point-of-care testing for improving the detection of SARS-CoV-2 infection in healthcare setting	Prof LEE Shui-shan	Stanley Ho Centre for Emerging Infectious Diseases	CUHK	(b), (c)	\$2,787,502
25	COVID190107	Comprehensive clinical, virological, microbiological, immunological and laboratory monitoring of patients hospitalized with Coronavirus Diseases (COVID-19)	Prof Paul CHAN	Department of Microbiology	CUHK	(b), (c), (f)	\$2,979,922
26	COVID190115	Assessing novel coronavirus antibodies for specificity and function during clinical infection and community asymptomatic cases	Dr Sophie VALKENBURG (DOAK)	School of Public Health	HKU	(b), (d)	\$1,515,000