

THE UNIVERSITY OF HONG KONG
LKS FACULTY OF MEDICINE

RGC GRF/ECS 2024-25

List of Awarded Projects

	Funding Scheme	Department/School	Principal Investigator	Project Title	Grand Total Awarded (HK\$)
1.	GRF	Department of Medicine	Professor D.T.M. Chan	Defining the Role of Annexin-A2 in Epithelial-to-Mesenchymal Transition and Tubulo-interstitial Fibrosis in Chronic Kidney Disease	1,559,463
2.	GRF	Department of Medicine	Dr. L. Geng	β -Klotho as a novel anti-ageing factor by suppressing adipose senescence	1,057,481
3.	GRF	Department of Medicine	Professor C.H.P. Lee	Tirzepatide versus semaglutide as an adjunct to improve glycaemia and cardiovascular risk factors control in overweight and obese patients with type 1 diabetes – A randomized, crossover, treat-to-target study (TACKLE-T1D Study)	1,553,283
4.	GRF	Department of Medicine	Professor P.H. Li	Recapitulating and repairing inborn errors of immunity using a novel personalized stem cell platform	1,461,315
5.	GRF	Department of Medicine	Dr. B. Wang	Semaphorin 6B as a novel glucose-lowering hormone to counteract type 2 diabetes: molecular mechanism and clinical implications	1,558,606
6.	GRF	Department of Medicine	Professor A. Xu	CUB Domain-containing Protein 1 as a Novel Mediator of Nonalcoholic Steatohepatitis: Molecular Mechanism and Therapeutic Implications	1,553,537

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7.	GRF	Department of Medicine	Professor J.K.Y. Yuen	A Communication-Priming Intervention to Improve Shared Decision-Making Between Older Adults with Advanced Chronic Kidney Disease and Clinicians	1,214,852
8.	GRF	Department of Microbiology	Professor S. Sridhar	Investigating gut-level susceptibility to hepatitis E virus in solid organ transplant recipients	1,399,723
9.	ECS	Department of Microbiology	Professor S. Yuan	Investigating the role of transcriptional corepressor TLE1 as a proviral factor of influenza A virus infection by interacting with virus nucleoprotein	1,338,048
10.	GRF	Department of Microbiology	Professor J. Zhou	Propagating and elucidating virus-host interaction of the previously uncultivable HRV-C in human respiratory organoids	1,559,580
11.	GRF	Department of Obstetrics and Gynaecology	Dr. C.H. Chen	The role of let-7 in human trophectoderm development	1,474,759
12.	GRF	Department of Obstetrics and Gynaecology	Professor K.W. Cheung	The maternal contribution to early-onset preeclampsia: A perspective from endometrial gland development and functions	1,446,752
13.	GRF	Department of Orthopaedics and Traumatology	Professor S.H.J. Wong	Multiplex polymerase chain reaction in diagnosis and treatment of joint infections – a multicentre randomised controlled trial (MJOLNIR)	1,327,156
14.	GRF	Department of Paediatrics and Adolescent Medicine	Professor A.K.S. Chiang	Functional Characterization of Epstein-Barr Virus Encoded RNA 2 in the Pathogenesis of Nasopharyngeal Carcinoma	1,518,778

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15.	GRF	Department of Paediatrics and Adolescent Medicine	Professor W.Y.W. Tso	Identifying the cognitive profile and neural basis of long COVID in adolescents	951,235
16.	GRF	Department of Paediatrics and Adolescent Medicine	Professor W. Tu	The effect of saturated and unsaturated fatty acids on the antitumor activity of human $\gamma\delta$ -T cells	1,559,580
17.	GRF	Department of Pathology	Professor U.S. Khoo	Ivabradine induces BRCAness in BRCA1/2 wild type triple-negative and ER-positive breast cancer, leading to PARP inhibitor sensitivity	1,558,075
18.	GRF	Department of Pathology	Professor L. Lu	The role of IL-18 in the immunopathogenesis of Sjögren's syndrome	1,554,999
19.	GRF	Department of Pathology	Professor C.C.L. Wong	Understanding the roles of serine synthesis pathway in liver regeneration	1,559,580
20.	GRF	Department of Pathology	Professor C.M. Wong	CDK11 Inhibition as a Targeted Approach for Treating c-Myc-driven Hepatocellular Carcinoma: From Molecular Mechanisms to Therapeutic Potential	1,559,580
21.	GRF	Department of Pathology	Professor J.W.P. Yam	Non-autophagic role of ULK1 - Biogenesis of small extracellular vesicles in liver cancer	1,558,301
22.	GRF	Department of Pharmacology and Pharmacy	Professor W. Jia	Exploring the Metabolic Regulatory Role of HDCA in Autoimmune Uveitis	1,086,832
23.	GRF	Department of Psychiatry	Professor W.C. Chang	Comprehensive investigation of excess mortality, life expectancy, mental and physical comorbidity and its associations with mortality risk in people with mental	956,973

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				disorders: a territory-wide register-based study in Hong Kong	
24.	GRF	Department of Surgery	Professor C.C. Foo	Application of an advanced whole genome sequencing technology and molecular residual disease algorithm to detect patient-derived circulating tumor DNA in post-operative plasma and its potential for predicting and monitoring colorectal cancer recurrence	1,559,580
25.	GRF	Department of Surgery	Professor K. Man	The role of donor-derived CXCR6+ resident memory CD8+ T cells in attenuating hepatocellular carcinoma recurrence after living donor liver transplantation	1,559,580
26.	GRF	Department of Surgery	Professor E.S.W. Ngan	Delineate the novel roles of Vinculin (Vcl) and pleiotrophin (Ptn) pathway in developing enteric nervous system	1,559,580
27.	GRF	Department of Surgery	Professor S.M. Tang	Genetic dysregulation of methionine metabolism in the pathogenesis and progression of biliary atresia	1,506,905
28.	GRF	Medical Ethics and Humanities Unit	Professor A.D. Gearin	Altered spaces: investigating materialities of care and epistemic concerns of Australian psychedelic medicine settings	694,140
29.	GRF	School of Biomedical Sciences	Dr. X. Bao	Characterization of C1QBP as a histone chaperone to regulate nucleosome and chromatin functions	1,559,580
30.	GRF	School of Biomedical Sciences	Professor R. Hervas Millan	Chaperone-mediated amyloid assembly enhances memory in Drosophila	1,559,385
31.	GRF	School of Biomedical Sciences	Professor M.S.Y. Huen	A Study in Regulation of Actin Dynamics in DNA Double-Strand Break Repair	1,558,606

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32.	GRF	School of Biomedical Sciences	Professor S.C. Kwon	Massively parallel RNA quantitation method to provide empirically validated CRISPRa and CRISPRi guide RNAs for all human transcription factors	1,559,580
33.	GRF	School of Biomedical Sciences	Professor G.S.H. Ling	Investigating the role of SiglecFhi tumor-associated neutrophils in driving immunotherapy resistance in hepatocellular carcinoma	1,559,580
34.	GRF	School of Biomedical Sciences	Professor P. Liu	Investigation of Human Trophoblast Stem cell differentiation as a novel cellular model for anti-aging study	1,542,191
35.	GRF	School of Biomedical Sciences	Professor T. Ni	Investigate HIV endogenous reverse transcription and capsid uncoating by cryoET	1,558,342
36.	GRF	School of Biomedical Sciences	Professor J.A. Tanner	Toroidal DNA nanostructures for rotary catalysis	1,550,808
37.	GRF	School of Biomedical Sciences	Professor S.C. Ti	Elucidating the mechanistic role of human tubulin variants in regulating microtubule polymerization dynamics and drug binding	1,559,580
38.	GRF	School of Biomedical Sciences	Professor S.L. Wong	Engineering of cytosine base editor with machine learning-coupled combinatorial mutagenesis	1,559,580
39.	GRF	School of Biomedical Sciences	Professor W.H.J. Wong	Exploring the epigenetic role of genomic uracil in human cells	1,559,580
40.	GRF	School of Biomedical Sciences	Dr. Z. Ye	Targeting of cellular antiviral protein ERLIN1 by SARS-CoV-2 NSP16	1,556,083

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41.	GRF	School of Chinese Medicine	Professor H. Chen	Adiponectin attenuates the susceptibility of the kidney to acute injury under diabetes via suppressing NLRP3-mediated pyroptosis	1,544,834
42.	GRF	School of Chinese Medicine	Professor N. Wang	Berberine potentiates anti-PD-1 efficacy in hepatocellular carcinoma	1,547,920
43.	GRF	School of Nursing	Professor Y.Y. Kwok	Enhancing psychological wellbeing and the patient-caregiver relationship through dyadic mindfulness: A randomized controlled trial in people with Parkinson's disease and their caregivers	927,800
44.	GRF	School of Nursing	Professor C. Lin	Optimizing Teachable Moments Following Emergency Room Visits: Enhancing Advance Care Planning for Older Adults with Chronic Conditions and Caregivers via Dyadic Motivational Interviewing: A Mixed-Methods Randomized Controlled Trial	1,260,016
45.	GRF	School of Public Health	Professor S.T. Ali	Inferring seasonality and population immunity for projecting future dengue dynamics and associated burden in Asian countries using multi-stream spatiotemporal data	1,146,291
46.	GRF	School of Public Health	Professor Y. Kim	Improving cardiometabolic profiles through reduced sedentary time and increased physical activity in children and adolescents: Integrated use of extensive genotype and wearable device data	672,205

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47.	GRF	School of Public Health	Professor S.M.K. Leung	Monitoring polymorphism and assessing the fitness of amino acid substitutions in respiratory syncytial virus fusion glycoprotein	1,556,266
48.	GRF	School of Public Health	Professor Q. Liao	Assessing the impacts of psychological roots on COVID-19 and influenza vaccination uptake and vaccine side effect experiences among adults with chronic diseases: a longitudinal study with a nested randomised control trial	897,690
49.	GRF	School of Public Health	Professor J. Quan	Consumer Preferences for Voluntary Health Insurance in a Mixed Economy: A Discrete Choice Experiment	496,500
50.	GRF	School of Public Health	Professor K.L.T. Tsang	Impact of school-based control measure on population transmission dynamics of COVID-19 in Hong Kong	830,420
51.	GRF	School of Public Health	Professor S.S. Wong	Investigating the consequences of antibody ceiling effect after repeated influenza vaccination in adults and older adults	1,556,870
Total Number of Successful Projects:					51
Total Amount of Grants Awarded:					HK\$ 70,367,980