

THE UNIVERSITY OF HONG KONG
LI KA SHING FACULTY OF MEDICINE

RGC GRF/ECS 2017-18

List of Awarded Projects

	Funding Scheme	Principal Investigator	Department/School	Project Title	Grant Total Awarded (HK\$)
1.	GRF	Professor MG Irwin	Department of Anaesthesiology	Repressor activator protein 1 increases the susceptibility to myocardial ischemia/reperfusion injury in type 2 diabetic mice	1,021,360
2.	GRF	Dr J Ko	Department of Clinical Oncology	Genomic and functional study of rare deleterious germline mutations in candidate genes associated with familial risk for esophageal carcinoma	971,720
3.	GRF	Dr HCC Chang	Department of Diagnostic Radiology	Time-efficient and high-resolution three-dimensional diffusion magnetic resonance imaging on clinical scanner	780,300
4.	GRF	Professor DTM Chan	Department of Medicine	Major Vault Protein in Tubulo-interstitial Damage of Chronic Kidney Disease	1,247,358
5.	GRF	Dr VSF Chan	Department of Medicine	Regulation of inflammasome activation in systemic lupus erythematosus	1,229,089
6.	GRF	Professor AYH Leung	Department of Medicine	Follistatin as a novel target and biomarker for acute myeloid leukaemia (AML) carrying internal tandem duplication (ITD) of Fms-Like Tyrosine kinase 3 (FLT3).	1,229,089
7.	GRF	Dr Q Lian	Department of Medicine	Klf4 interacts with PCG-1/ERR to regulate mitochondrial biogenesis and dynamics in rescuing complex I dysfunction-provoked mesenchymal stem cell ageing	928,200
8.	GRF	Dr KM Ng	Department of Medicine	Clinical Insight into Xi-chromosome Reactivation and its Therapeutic Potential in X-linked cardiomyopathies and related disorders.	784,800

9.	GRF	Professor KC Tan	Department of Medicine	Role of the inducible degrader of low-density lipoprotein receptor (IDOL) in lipoprotein metabolism	1,025,393
10.	GRF	Professor A Xu	Department of Medicine	UCP1 Independent Mechanisms Mediate the Crosstalk between Brown and White Adipose Tissue to Dissipate Energy	1,215,840
11.	GRF	Dr TCC Yau	Department of Medicine	A Phase 1b Study of Polo-like Kinase 4 inhibitor CFI-400945 in Advanced Hepatocellular Carcinoma	854,241
12.	GRF	Dr KH Kok	Department of Microbiology	Functional role of an interferon-stimulated gene IFIRM in influenza A virus infection	1,196,388
13.	GRF	Dr KH Sze	Department of Microbiology	Structure and function study of Mp1p of pathogenic Talaromyces (Penicillium) marneffeii: a novel virulence mechanism for the evasion of host defense	1,196,004
14.	GRF	Dr CN Chiu	Department of Obstetrics and Gynaecology	The roles of spermatozoa-oviductal epithelial cell interaction on the selection of fertilization-competent sperm and fertilization in humans	1,125,910
15.	GRF	Professor EHY Ng	Department of Obstetrics and Gynaecology	The regulatory role of placenta-derived extracellular vesicles on the differentiation and functions of human decidual macrophages	1,008,089
16.	GRF	Professor WSB Yeung	Department of Obstetrics and Gynaecology	The action of microRNA let-7 on blastocyst formation in mice	1,211,819
17.	GRF	Dr P Ip	Department of Paediatrics and Adolescent Medicine	Does methylphenidate treatment increase seizure risk in children and adolescents with Attention Deficit Hyperactivity Disorder?	360,000
18.	GRF	Professor W Tu	Department of Paediatrics and Adolescent Medicine	Costimulatory effect of 4-1BB signal in the antitumor activity of human gammadelta-T cells against EBV-induced lymphoproliferative disease	1,232,899
19.	GRF	Dr CC Wong	Department of Pathology	The molecular regulations, roles, and clinical implications of hypoxia-induced porcupine in hepatocellular carcinoma	1,014,736
20.	GRF	Dr GPH Leung	Department of Pharmacology and Pharmacy	Role of equilibrative nucleoside transporter-4 in the cardioprotection against ischemia-reperfusion injury in diabetes mellitus	745,414

21.	GRF	Dr Y Wang	Department of Pharmacology and Pharmacy	Lipocalin-2: a key mediator of tissue fibrosis in obesity-associated cardiometabolic renal syndrome	1,225,400
22.	GRF	Dr W Chang	Department of Psychiatry	Glutamatergic abnormalities and prediction of clinical and functional outcomes in individual at clinical high-risk for psychosis: a 2-year longitudinal proton magnetic resonance spectroscopy study	1,092,090
23.	GRF	Dr ACY Chan	Department of Surgery	Effect of associating liver partition and portal vein ligation for staged hepatectomy (ALPPS) on tumor aggressiveness and oncological outcome after resection of hepatocellular carcinoma	1,144,089
24.	GRF	Professor K Man	Department of Surgery	The role of mitochondrial regulation in marginal graft injury after living donor liver transplantation	1,403,701
25.	GRF	Dr TP Ng	Department of Surgery	The role of glutathione S-transferase A2 (GSTA2) in hepatocellular carcinoma recurrence after liver transplantation	621,140
26.	GRF	Dr CLT Wong	Department of Surgery	A multicenter, randomized controlled trial of stereotactic body radiation therapy (SBRT) versus transarterial chemoembolization (TACE) in patients with unresectable hepatocellular carcinoma	906,100
27.	GRF	Dr TS Wong	Department of Surgery	Induced impairment of natural killer cell cytotoxicity against head and neck cancers by NOX5	884,691
28.	GRF	Professor D Chan	School of Biomedical Sciences	Understanding hyperplastic callus and abnormal bone formation in osteogenesis imperfecta type V	959,452
29.	GRF	Professor YS Chan	School of Biomedical Sciences	Selective recruitment of inhibitory interneurons to vestibular microcircuits for distinct behaviour	1,088,000
30.	GRF	Dr RCC Chang	School of Biomedical Sciences	Investigating the significant roles of PKR on systemic inflammation triggered neuroinflammation and cognitive dysfunctions	849,886
31.	GRF	Professor KSE Cheah	School of Biomedical Sciences	Molecular control of hypertrophic chondrocyte cell fate and lineage extension	1,229,763
32.	GRF	Dr AL Cheung	School of Biomedical Sciences	Significance of miR-338-5p in modulating PAK4 signaling and metastasis of esophageal cancer	1,166,553

33.	GRF	Dr MCH Cheung	School of Biomedical Sciences	Elucidating the role of DEPDC1B in melanoma development and therapy	952,554
34.	GRF	Dr YP Ching	School of Biomedical Sciences	Characterization of the role of liver cancer stem cell marker, CD133 in promoting chromosome instability in hepatocarcinogenesis	1,025,393
35.	ECS	Dr B Gao	School of Biomedical Sciences	Regulation of non-canonical Wnt/PCP signaling by Vangl2 phosphorylation	1,313,444
36.	GRF	Dr MSY Huen	School of Biomedical Sciences	A Study of TRAIIP in Replicative Stress Responses: Regulation and Relevance to Seckel Syndrome	1,080,000
37.	GRF	Professor D Jin	School of Biomedical Sciences	Regulatory roles of WD40 repeat-containing protein 5 (WDR5) in hepatitis B virus transcription	1,179,517
38.	GRF	Dr SKY Ma	School of Biomedical Sciences	Role of protein arginine methyltransferase 6 (PRMT6) in metabolic reprogramming in hepatocellular carcinoma	767,822
39.	GRF	Dr RK Ng	School of Biomedical Sciences	Epigenetic regulation of C/EBP-epsilon enhancer activity in MLL-rearranged leukemia	972,925
40.	GRF	Dr C Qian	School of Biomedical Sciences	Identification and characterization a novel protein complex in rRNA transcription	1,499,389
41.	GRF	Dr YME Wong	School of Biomedical Sciences	The roles of Eya1 and Six1 transcription factors in regulating the mammalian cochlear hair cell morphogenesis	972,400
42.	GRF	Dr CH Yu	School of Biomedical Sciences	Investigating the functional role of myosin-1e in cytoskeletal regulations, podosome formations, and matrix organizations	877,625
43.	GRF	Dr J Rong	School of Chinese Medicine	Plant-derived celastrol ameliorates metabolic dysfunctions, oxidative stress and inflammation in diet-induced obesity via disrupting the cross-talk between PKM2, HIF-1 α and IL-1 β	1,229,089
44.	GRF	Professor J Shen	School of Chinese Medicine	Exploring Molecular Targets for Drug Discovery to Preventing Hyperglycemia-mediated Hemorrhagic transformation in Ischemic Stroke: Sodium Danshensu (SDSS) as an Example	980,801

45.	GRF	Professor Z Zhang	School of Chinese Medicine	Resveratrol and ginsenoside Rg1 combination protects against chemotherapy-induced cognitive impairment: synergistic mechanisms of cytokine-modulating and anti-neurotoxic actions	848,505
46.	GRF	Dr W Deng	School of Nursing	Deciphering multiple mechanisms underlying the retention of Epstein-Barr viruses in nasopharyngeal carcinoma cells	1,350,602
47.	GRF	Dr S Doak	School of Public Health	Influenza viruses adapt to escape T cell responses	1,190,839
48.	GRF	Professor LLM Poon	School of Public Health	Dissecting the roles of influenza viral codon bias and CpG dinucleotide usage frequency on virus replication	1,189,942
49.	GRF	Dr S Sanyal	School of Public Health	Mechanism of OtuB1-mediated regulation in influenza virus infection	819,393
50.	GRF	Dr P Wu	School of Public Health	Influenza seasonality in Hong Kong and China before and after the 2009 H1N1 pandemic and the implications for vaccination policy	600,000
51.	GRF	Dr H Zhu	School of Public Health	Genetic characterization and identification of the molecular basis for the increasing infectivity and transmissibility of highly pathogenic H5 influenza virus in mammals	1,286,938
52.	GRF	Professor P Sham	Centre for Genomic Sciences	Integrating functional annotation and statistical information in novel set-based rare-variants association tests for complex diseases	629,365
Total Number of Successful Projects:					52
Total Amount of Grants Awarded:					HK\$53,716,057