

LI KA SHING FACULTY OF MEDICINE
The UNIVERSITY OF HONG KONG

RGC GRF/ECS 2015-16

List of Awarded Projects

	Funding Scheme	Principal Investigator	Department/School	Project Title	Project Fund Awarded (HK\$)	ECS Grant Awarded (HK\$)	Grant Total Awarded (HK\$)
1.	GRF	Professor M.G. Irwin	Anaesthesiology	Role of Brg1 in Sevoflurane Postconditioning Cardioprotection in Diabetes and Its Interplay with STAT3	836,372		836,372
2.	GRF	Dr. Z. Xia	Anaesthesiology	PKCβ2 over-activation reduces cardiac tolerance to ischemia-reperfusion injury in diabetic rodents by downregulating caveolin-3 and modulating cardiomyocyte autophagy	860,359		860,359
3.	GRF	Dr. J.H. Chen	Biomedical Sciences	Molecular mechanisms of bicarbonate transport and impaired pH sensitivity in Δ F508-CFTR	1,200,816		1,200,816
4.	GRF	Dr. M.C.H. Cheung	Biomedical Sciences	Elucidating the role of Sox9 in cell fate acquisition of neural crest progenitors in the dorsal root ganglia	901,852		901,852
5.	GRF	Dr. Y.P. Ching	Biomedical Sciences	Functional characterization of the roles of Polo-like kinase 4, Plk4 in hepatocarcinogenesis	1,153,232		1,153,232
6.	GRF	Dr. C. Fu	Biomedical Sciences	Molecular mechanisms of nuclear congression	1,064,582		1,064,582
7.	GRF	Professor J. Huang	Biomedical Sciences	Characterization of the interaction between Kif5b and NMDAR in ischemic provoked neurodegeneration	793,135		793,135

8.	GRF	Dr. M.S.Y. Huen	Biomedical Sciences	Role of Human Ubiquitin Machineries in DNA Damage Signaling and Repair	983,493		983,493
9.	ECS	Dr. K.O. Lai	Biomedical Sciences	Investigating the regulatory role of protein arginine methylation in dendritic spine development	1,060,573		1,060,573
10.	ECS	Dr. S.W.C. Lai	Biomedical Sciences	Mechanism of fear associative learning in the frontal association cortex and its implications in schizophrenia	1,213,589		1,213,589
11.	GRF	Dr. B. Lin	Biomedical Sciences	Inhibition of colony-stimulating factor 1 receptor (CSF1R) signaling in microglia delays the progression of the chronic neurodegeneration in retinitis pigmentosa	1,033,241		1,033,241
12.	GRF	Dr. C. Qian	Biomedical Sciences	Structural & Mechanistic Analysis of BAF Chromatin Remodeling Complex	970,456		970,456
13.	GRF	Professor M.H. Sham	Biomedical Sciences	The interactions of Eya1 and Notch signaling in the branchial epithelia during mammalian craniofacial development	1,180,783		1,180,783
14.	GRF	Professor D.K.Y. Shum	Biomedical Sciences	Semaphorin and perineuronal nets regulate developmental plasticity of central vestibular circuitry	975,758		975,758
15.	GRF	Dr. Y. Song	Biomedical Sciences	Study of the pathogenic mechanisms of Hnrnpa1 in congenital heart defects (CHD)	774,190		774,190
16.	GRF	Dr. J.A. Tanner	Biomedical Sciences	DNA Display SELEX - a new approach to evolve fluorescent tools to image RNA in living cells	994,480		994,480
17.	GRF	Dr. C.M. Tsang	Biomedical Sciences	Potential of tumor-associated macrophages (TAMs)-induced invasiveness in EBV-associated nasopharyngeal epithelial cells	1,227,193		1,227,193
18.	ECS	Dr. C. Yu	Biomedical Sciences	Investigating phosphatidylinositol lipid signaling at the cancer invadosome	900,942		900,942

19.	GRF	Dr. J. Rong	Chinese Medicine	Novel caffeic acid derivatives promote the phenotypic and functional switch of macrophages toward resolution of inflammation and cardiac regeneration after myocardial infarction	1,059,311		1,059,311
20.	GRF	Professor J. Shen	Chinese Medicine	Exploring HMGB1 signaling as molecular target in peroxynitrite-mediated blood brain barrier disruption and hemorrhage transformation in ischemia-reperfused brain with delayed thrombolytic therapy	731,487		731,487
21.	GRF	Dr. A.K.L. Cheung	Clinical Oncology	Functional and mechanistic characterizations of a Candidate Tumor Suppressor Gene, Mirror Image Polydactyly 1, in Nasopharyngeal Carcinoma	961,461		961,461
22.	GRF	Professor M.L. Lung	Clinical Oncology	Functional and Mechanistic Investigation of Frequent p53 Gain-of-Function Mutations in Esophageal Squamous Cell Carcinoma	1,168,311		1,168,311
23.	GRF	Dr. H.K.F. Mak	Diagnostic Radiology	Neurochemical basis of the change in attention control and memory encoding in normal aging	417,221		417,221
24.	GRF	Professor D.T.M. Chan	Medicine	The roles of lipopolysaccharide, lipopolysaccharide binding protein and CD14 in the pathogenesis of lupus nephritis	1,078,140		1,078,140
25.	GRF	Dr. K.Y. Cheng	Medicine	The novel role of hematopoietic APPL1 in regulating adipose tissue inflammation and insulin resistance in obesity	1,032,327		1,032,327
26.	GRF	Professor A. Xu	Medicine	Neutrophil serine proteases as a potential mediator of insulinitis in autoimmune diabetes	1,092,383		1,092,383
27.	GRF	Dr. T.C.C. Yau	Medicine	A Prospective Validation of the Hong Kong Liver Cancer (HKLC) Prognostic Staging System: A Multi-Centre Study in Hong Kong	602,663		602,663
28.	GRF	Dr. K.H. Yiu	Medicine	Role of Angiotensin Receptor Blocker to Decrease the Progression of Left Ventricular Remodeling in Patients with Asymptomatic Aortic Stenosis	554,700		554,700

29.	GRF	Dr. S.S.Y. Yung	Medicine	The Role of miR-200c in Peritoneal Inflammation and Fibrosis	711,720		711,720
30.	GRF	Professor Z. Chen	Microbiology	Role of PD1-Based Vaccine-Elicited CD8+ T Lymphocytes in Modulating MDSC-associated Immunosuppression	977,457		977,457
31.	ECS	Dr. K.H. Kok	Microbiology	Functional role of PACT in limiting replication of influenza A virus	647,905	50,000	697,905
32.	GRF	Professor S.K.P. Lau	Microbiology	Study of the genome evolution, interspecies transmission and pathogenicity of a novel animal picornavirus	658,979		658,979
33.	GRF	Dr. M.L. Yeung	Microbiology	Pathogenesis of Middle East Respiratory Syndrome Coronavirus (MERS-CoV)-associated renal failure	1,137,132		1,137,132
34.	ECS	Dr. P.H. Chau	Nursing	A study on acute myocardial infarction symptoms awareness and expected treatment seeking behaviour among older Chinese in Hong Kong	536,960		536,960
35.	GRF	Dr. D.W. Chan	Obstetrics and Gynaecology	The functional role of Hsa-miR-141 in metastatic progression of ovarian cancer	1,344,714		1,344,714
36.	GRF	Dr. C.N. Chiu	Obstetrics and Gynaecology	The role of glycodelin-A on the vascular remodeling function of decidual natural killer cells during early pregnancy and its association with preeclampsia	1,064,451		1,064,451
37.	GRF	Dr. C.K.F. Lee	Obstetrics and Gynaecology	Bisphenol A analogues: Mechanistic actions on Embryo implantation and Endometrial Receptivity	920,395		920,395
38.	GRF	Professor E.H.Y. Ng	Obstetrics and Gynaecology	Myometrial cells modulate the activities of endometrial mesenchymal-like stem cells	889,107		889,107
39.	GRF	Professor W.S.B. Yeung	Obstetrics and Gynaecology	Polyamine/Let-7 signaling in embryo implantation and diapause	1,012,304		1,012,304

40.	GRF	Professor K.M.C. Cheung	Orthopaedics and Traumatology	Role of Matrix Metalloproteinase 12 (MMP12) in Intervertebral Disc Fibrosis	838,941		838,941
41.	GRF	Dr. V.Y.L. Leung	Orthopaedics and Traumatology	Deriving nucleus pulposus progenitors to facilitate vertebral joint repair	814,907		814,907
42.	GRF	Dr. W.P. Yau	Orthopaedics and Traumatology	To investigate the effect of local application of Strontium on tendon-bone healing in rotator cuff repair	860,722		860,722
43.	GRF	Dr. P. Ip	Paediatrics and Adolescent Medicine	Attention-deficit/hyperactivity disorder and child maltreatment: A population-based study	446,650		446,650
44.	GRF	Dr. W.Y.W. Tso	Paediatrics and Adolescent Medicine	The use of diffusion kurtosis imaging (DKI) to quantify brain microstructure alteration as predictor for neurocognitive and functional outcomes in childhood intracranial germinoma survivors	630,327		630,327
45.	GRF	Professor. W. Tu	Paediatrics and Adolescent Medicine	Role of costimulatory molecule CD137 in the antiviral activity of human gammadelta-T cells against influenza virus	1,022,409		1,022,409
46.	GRF	Dr. K.W. Lee	Pathology	The clinical significance and functional characterization of Nuclear factor (erythroid-derived 2)-like 2 in regulating liver tumor initiating cells	1,212,000		1,212,000
47.	GRF	Professor L. Lu	Pathology	The Role of B cells in the development of experimental Sjogren's syndrome	906,119		906,119
48.	GRF	Professor I.O.L. Ng	Pathology	The role of SUMO-specific protease SENP1 in liver cancer	1,198,878		1,198,878
49.	GRF	Dr. C.C.L. Wong	Pathology	The molecular mechanisms of hypoxia-induced myeloid-derived suppressor cell (MDSC) recruitment in liver cancer	1,168,331		1,168,331
50.	GRF	Dr. C.M. Wong	Pathology	Pathological roles of chromatin remodeling protein, HELLS, in liver carcinogenesis and its implications in cancer metabolic reprogramming	918,205		918,205

51.	GRF	Dr. J.W.P. Yam	Pathology	Functional role of caveolin-1-mediated S100P in liver cancer metastasis under hypoxic stress	981,146		981,146
52.	GRF	Dr. E.W. Chan	Pharmacology and Pharmacy	Oro-dispersible olanzapine (wafer) versus conventional oral haloperidol or diazepam tablets for the management of acute agitation in the Accident and Emergency Department - a multicentre randomised clinical trial.	1,072,525		1,072,525
53.	GRF	Dr. P.C.L. Kwok	Pharmacology and Pharmacy	Porous nanoparticle aerosol carriers with controllable density for pulmonary drug delivery	501,255		501,255
54.	GRF	Dr. K.W. Chan	Psychiatry	Exploring the mechanisms of self-referential gaze perception and its potential as an endophenotype in patients with schizophrenia-spectrum disorder	800,791		800,791
55.	GRF	Dr. W.C. Chang	Psychiatry	A longitudinal multimodal MRI investigation for clinical and functional outcome prediction in individuals at clinical high-risk for psychosis: a prospective 2-year follow-up study	1,026,712		1,026,712
56.	GRF	Professor E.Y.H. Chen	Psychiatry	An exploration of psychotic symptoms and their vulnerability traits by evaluating large-scale semantic networks in psychotic disorders	634,316		634,316
57.	GRF	Professor P.C. SHAM	Psychiatry	Method and software tool for estimating and dissecting the heritability of complex diseases	1,167,288		1,167,288
58.	GRF	Dr. D.K.M. Ip	Public Health	Effect of host genetic polymorphism on transmission of influenza virus infection in a household setting	608,500		608,500
59.	GRF	Dr. W.W.T. Lam	Public Health	The role of metacognition and cognitive attentional syndrome on fear of cancer recurrence: a longitudinal study	500,176		500,176
60.	ECS	Dr. M.Y. Ni	Public Health	Why do Hong Kong people live longer?	370,660	50,000	420,660

61.	GRF	Dr. S. Sanyal	Public Health	Role of Tsg101 in the process of influenza virus assembly and release	759,020		759,020
62.	GRF	Dr. H. Zhu	Public Health	Continuous evolution of H10N8 influenza viruses in chickens and molecular determinants for their infectivity in mammals	1,145,430		1,145,430
63.	GRF	Dr. A.C.Y. Chan	Surgery	Associating liver partition and portal vein ligation for staged hepatectomy (ALPPS) in small-for-size liver remnant: a prospective safety and feasibility study.	896,929		896,929
64.	GRF	Professor K. Man	Surgery	The role of repressor and activator protein1 (Rap1) on liver graft injury after transplantation	1,170,113		1,170,113
65.	GRF	Dr. E.S.W. Ngan	Surgery	Genetic interaction between SUFU, GLI2 and β TrCP in medulloblastoma tumorigenesis	969,066		969,066
66.	GRF	Dr. R.K.Y. Tsang	Surgery	Identification of at risk structures responsible for late dysphagia in nasopharyngeal carcinoma patients treated with radiotherapy	514,000		514,000
Total Number of Successful Projects:					66		
Total Amount of Grants Awarded:					59,959,590		