

THE UNIVERSITY OF HONG KONG
LI KA SHNG FACULTY OF MEDICINE

RGC GRF/ECS 2013/14

List of Awarded Projects

	Funding Scheme	PI	Department	Project Title	Project Fund	ECS Grant Award	Grant Total Awarded
1	GRF	Professor G.S.W. Tsao	Anatomy	Dynamics of EBV episome maintenance in infected nasopharyngeal epithelial cells	848,712		848,712
2	GRF	Dr. D. Chan	Biochemistry	Progenitor cells in the formation and repair of articular cartilage	1,125,842		1,125,842
3	GRF	Professor K.S.E. Cheah	Biochemistry	Mechanistic insights into the genesis and physiological role of hypertrophic chondrocyte-derived osteoblasts	1,039,239		1,039,239
4	GRF	Dr. J. Huang	Biochemistry	Non-canonical role of Kif5b in clathrin uncoating and the endocytic regulation of muscarinic acetylcholine receptors	736,128		736,128
5	GRF	Professor D. Jin	Biochemistry	Roles of SIRT1 deacetylase in human T-cell leukemia virus type I transcription and leukemogenesis	822,731		822,731
6	GRF	Dr. B. Liu	Biochemistry	Chromatin remodeling in laminopathy-based progeria	796,750		796,750
7	GRF	Dr. C. Qian	Biochemistry	Structure-Based Mechanistic Insights into Timeless-Involved Replication Fork Protection	866,032		866,032
8	GRF	Dr. J.A. Tanner	Biochemistry	3-D Printed Aptamer-Enabled Diagnostic Dominoes for Malaria	840,051		840,051
9	GRF	Dr. Z. Zhou	Biochemistry	Interplay between ADAM15 and MT1-MMP in FGF2-induced angiogenesis	952,636		952,636
10	ECS	Dr. C. Fu	Biochemistry	Roles of a novel spindle pole body protein psr1p in bipolar spindle assembly and kinetochore clustering	907,764	50,000	957,764
11	ECS	Dr. H.Y.Z. Cheung	Biochemistry	Deciphering the molecular machinery of autophagy deregulation in Parkinsons disease	832,117	50,000	882,117
12	GRF	Dr. L. Fu	Clinical Oncology	Characterization of WNT2 in the esophageal cancer microenvironment: prognostic and therapeutic implications	736,128		736,128
13	GRF	Professor X. Guan	Clinical Oncology	Characterization of the regulatory roles of CHD1L in stemness and differentiation in hepatocellular carcinoma	1,039,239		1,039,239

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14	GRF	Professor M.L. Lung	Clinical Oncology	Elucidating the functional role of a metastasis-associated extracellular matrix gene, ECM1, in esophageal cancer	952,636		952,636
15	GRF	Dr. S.K.Y. Ma	Clinical Oncology	Significance of Annexin A3 in CD133+ Cancer-Initiating Cells-Dr.iven Hepatocellular Carcinoma	779,429		779,429
16	GRF	Dr. J.T.K. Wu	Community Medicine	Population-based survey on patterns of social contacts relevant to the spread of infectious diseases in Hong Kong	519,619		519,619
17	GRF	Dr. W.C.W. Wong	Family Medicine and Primary Care	A Novel Approach to HIV Prevention: A Randomised Controlled Trial of Personal Effective Programme for Female Sex Workers in Hong Kong	376,572		376,572
18	GRF	Professor D.T.M. Chan	Medicine	The Role of CD44 in the Pathogenesis of Lupus Nephritis	692,826		692,826
19	GRF	Dr. R.L.C. Hoo	Medicine	Adipocyte fatty acid binding protein (A-FABP) as a potential mediator of cardiac dysfunction and heart failure related to diabetes and obesity	736,128		736,128
20	GRF	Dr. I.F.N. Hung	Medicine	Efficacy and safety of a novel intradermal live-attenuated varicella zoster vaccine in hematopoietic stem cell transplantation donors: a randomized double-blind placebo-controlled trial	691,267		691,267
21	GRF	Professor W.C.S. Lau	Medicine	The role of regulatory microRNAs in plasmacytoid dendritic cell functions in systemic lupus erythematosus immunopathogenesis	692,826		692,826
22	GRF	Dr. A.Y.H. Leung	Medicine	A novel role of ADP-ribosylation factors-like 4a (arl4a) in definitive hematopoiesis	909,334		909,334
23	GRF	Dr. J.C.K. Leung	Medicine	The role of kidney injury molecule in the reparative process of injured kidney tubular epithelial cells	736,128		736,128
24	GRF	Professor W.K. Leung	Medicine	Molecular characterization of gastric microbiome in individuals at different stages of H. pylori associated gastric carcinogenesis cascade	637,400		637,400
25	GRF	Dr. T.M.Y. Mok	Medicine	The role of IL-33 in the modulation of macrophage differentiation and immunoregulatory functions in systemic lupus erythematosus	866,032		866,032
26	GRF	Dr. K.M. Ng	Medicine	Novel Therapeutic Approach for X-linked related Danon Disease Insight from Patient-specific Pluripotent Stem Cells Platform.	952,636		952,636
27	GRF	Dr. D.C.W. Siu	Medicine	Cardiac fibroblasts derived Human induced pluripotent cells for cardiac regeneration	736,128		736,128
28	GRF	Dr. E.W.C. Tse	Medicine	Extending the therapeutic application of arsenic trioxide in acute myeloid leukaemia	692,826		692,826

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29	GRF	Professor H.F. Tse	Medicine	Effects of Catheter-based Splanchnic Denervation on Blood Pressure Control and Left Ventricular Remodeling in Porcine Model of Hypertensive Cardiomyopathy	1,039,239		1,039,239
30	GRF	Professor A. Xu	Medicine	Fibroblast growth factor 21 maintains glucose homeostasis during fasting by mediating the crosstalk between liver and brain	866,032		866,032
31	GRF	Dr. K.H. Yiu	Medicine	Relationship between matrix G1a protein and osteogenic endothelial progenitor cells with vascular and valvular calcification in patients with rheumatoid arthritis: Potential therapeutic role of vitamin K	649,524		649,524
32	GRF	Dr. H. Chen	Microbiology	The role of RAP55 and P-bodies in the regulation of influenza virus replication	562,921		562,921
33	GRF	Dr. D.W. Chan	Obstetrics and Gynaecology	Functional significance of TAK1-mediated NFkB signaling in omental metastasis of ovarian cancer	1,039,239		1,039,239
34	GRF	Dr. K.K.L. Chan	Obstetrics and Gynaecology	Differential roles of estrogen receptor subtypes and variants in ovarian cancer: implications for personalized hormonal treatment.	736,128		736,128
35	GRF	Dr. C.K.F. Lee	Obstetrics and Gynaecology	Embryo-Female Reproductive Tract Interaction: A study on the role of embryo-derived factor(s) on endometrial receptivity through microRNA regulation	649,524		649,524
36	GRF	Professor H.Y.S. Ngan	Obstetrics and Gynaecology	Roles of HPV-E6 protein and CD55(+) population in regulating radio-resistance in cervical cancer cells	1,255,747		1,255,747
37	GRF	Professor W.S.B. Yeung	Obstetrics and Gynaecology	MicroRNA-135a transforms normal HPV infected cervical cells into cancer cells and cells with cancer stem cell-like properties	848,712		848,712
38	GRF	Dr. A.C.Y. Lo	Ophthalmology	Cell-based intraocular delivery of glial-derived neurotrophic factor (GDNF) by collagen-alginate composite gel as a therapy for retinal degenerative diseases	1,039,239		1,039,239
39	GRF	Professor D.S.H. Wong	Ophthalmology	Randomised double-masked controlled trial of Lutein as an adjunct to surgery to improve the visual outcome of rhegmatogenous retinal detachment	605,357		605,357
40	GRF	Professor W.W. Lu	Orthopaedics and Traumatology	Identification of Early Biomarker Of Osteoarthritis - Nanomechanical Characterization of Individual Collagen Fibrils of the Articular Cartilage	500,000		500,000
41	GRF	Dr. K.W.K. Yeung	Orthopaedics and Traumatology	Development of novel biodegradable bone substitutes for osteoporotic spinal fracture treatments	645,500		645,500
42	GRF	Dr. F.K.L. Leung	Orthopaedics and Traumatology	Development of a magnesium-based biomaterial using a critical-sized bone defect model	549,065		549,065

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43	GRF	Dr. D. Samartzis	Orthopaedics and Traumatology	Metabonomics of Intervertebral Disc Degeneration	822,731		822,731
44	GRF	Dr. M.K.T. To	Orthopaedics and Traumatology	The role of silver nanoparticles in tendon healing	484,978		484,978
45	GRF	Dr. W.P. Yau	Orthopaedics and Traumatology	Effect of local application of Strontium on graft ligamentization in a rabbit anterior cruciate ligament reconstruction model	779,429		779,429
46	GRF	Dr. P. Ip	Paediatrics and Adolescent Medicine	The Gap Between the Rich and the Poor: From School Readiness to School Success	371,028		371,028
47	GRF	Dr. B.H.Y. Chung	Paediatrics and Adolescent Medicine	Cell lineage-specific differential DNA methylation in Chinese patients with early-onset systemic lupus erythematosus: implications for disease susceptibility	874,693		874,693
48	GRF	Professor Y.L. Lau	Paediatrics and Adolescent Medicine	The effects of BTK mutation on TLR3-mediated type I IFN response against poliovirus infection in X-linked agammaglobulinemia	684,166		684,166
49	GRF	Dr. W. Tu	Paediatrics and Adolescent Medicine	Role of human gammadelta-T cells in the generation of influenza virus-specific antibody	1,125,842		1,125,842
50	GRF	Dr. W. Yang	Paediatrics and Adolescent Medicine	Identifying susceptibility genes in the human MHC region independently associated with systemic lupus erythematosus (SLE) in Chinese populations	822,731		822,731
51	GRF	Dr. K.W. Chan	Pathology	Functional characterization and evaluation of the metastasis promoting effect of neuropilin-2 (NRP2) in esophageal squamous cell carcinoma	866,032		866,032
52	GRF	Dr. W.Y. Chan	Pathology	Human lung local immunity to influenza virus - role of lung antibody and resident memory T cells	692,826		692,826
53	GRF	Dr. K.W. Lee	Pathology	Clinical relevance and characterization of CD47 in hepatocellular carcinoma	779,429		779,429
54	GRF	Professor I.O.L. Ng	Pathology	The role of Lgr5 in liver cancer	952,636		952,636
55	GRF	Dr. R.K. Ng	Pathology	The role of PRMT1 in activation of leukemia stem cell program in MLL-rearranged leukemia	649,524		649,524
56	GRF	Dr. C.C.L. Wong	Pathology	Role of lysyl oxidase-like 2 (LOXL2) in the progression and metastasis of liver cancer	779,429		779,429
57	GRF	Dr. J.W.P. Yam	Pathology	Clinical relevance and functions of nuclear Met in hepatocellular carcinoma metastasis	1,108,944		1,108,944
58	GRF	Dr. Y. Wang	Pharmacology and Pharmacy	HERC2 as a regulator of endothelial senescence by modulating SIRT1/LKB1 signaling axis	952,636		952,636

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59	GRF	Professor I.C.K. Wong	Pharmacology and Pharmacy	Effects of Attention Deficit Hyperactivity Disorder (ADHD) pharmacotherapy on hospital accident and emergency admission due to injury-related events. Acronym: ATHAN (ADHD Treatments and Hospital Accident and emergency admission aNalysis)	308,855		308,855
60	ECS	Dr. W.Y.E. Chan	Pharmacology and Pharmacy	Intramuscular olanzapine versus haloperidol or midazolam for the management of acute agitation in the emergency department a multicentre randomised clinical trial.	1,361,647	50,000	1,411,647
61	GRF	Professor Y.S. Chan	Physiology	Serotonin-induced bidirectional modulation of activity-dependent synaptic plasticity tunes vestibular functions	1,039,239		1,039,239
62	GRF	Dr. K.H. Cheung	Physiology	Nuclear Membrane Electrophysiology of Ryanodine Receptor And Its Regulation by cADPR	1,057,187		1,057,187
63	GRF	Dr. M. Kotaka	Physiology	Human Dha kinase, not just an enzyme: Investigations into the molecular mechanism of its dual enzymatic activity and its role in the negative regulation of MDA5-mediated innate antiviral signaling	738,345		738,345
64	GRF	Dr. J. Yue	Physiology	Dissecting the Mechanism and Function of TPC2 Signaling in Autophagy Maturation in Mammalian Cells	859,537		859,537
65	ECS	Dr. J. Chen	Physiology	CFTR Activation by Regional Phosphorylation on the R Domain	718,647	50,000	768,647
66	GRF	Dr. W.C. Chang	Psychiatry	Reward learning impairment in clinical high-risk individuals, first-episode psychosis patients and their non-psychotic siblings: psychosis prediction and endophenotypic investigation	1,125,842		1,125,842
67	GRF	Professor P.C. Sham	Psychiatry	Statistical methods for characterizing the genetic component of polygenic diseases	690,089		690,089
68	GRF	Dr. M.M. Garcia-Barcelo	Surgery	Congenital dilatation of the bile ducts (CCD): a genetic study	1,472,255		1,472,255
69	GRF	Professor P.K.H. Tam	Surgery	Uncovering the genetic lesions underlying persistent cloaca by whole genome sequencing	822,731		822,731
70	GRF	Dr. R.K.Y. Tsang	Surgery	Pharyngeal dysphagia after esophagectomy: Assessment and the efficacy of swallowing therapy	501,346		501,346
71	GRF	Professor R.A. Li	Li Ka Shing Faculty of Medicine	Engineering Calcium Homeostasis of hESC-derived cardiomyocytes	1,212,445		1,212,445
72	GRF	Dr. J. Shen	Chinese Medicine	Elucidating effects of APPL2 on regulating proliferation and cell fate decision of neural stem/progenitor cells through activating Notch signaling pathway	779,429		779,429

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73	GRF	Dr. Z. Zhang	Chinese Medicine	The identification of psychopharmacological mechanisms of glycyrrhetic acid in reducing antipsychotic-induced hyperprolactinemia	519,619		519,619
74	GRF	Dr. F.W. Ngai	Nursing	The effect of a father inclusive psychoeducation program on postnatal depression: a randomized controlled trial	739,920		739,920
75	ECS	Dr. J.Y.H. Wong	Nursing	Impact of Mild Traumatic Brain Injury on Cognitive Functioning in Abused Women: A Longitudinal Study	875,516	50,000	925,516
76	GRF	Dr. M.C.W. Chan	Public Health	Role of distal airway stem cells in lung regeneration following highly pathogenic influenza H5N1 induced acute lung injury	1,385,652		1,385,652
77	GRF	Dr. L.L.M. Poon	Public Health	Characterization of fibronectin-mediated influenza A virus infection in human cells.	935,315		935,315
78	GRF	Dr. H. Yen	Public Health	Viral and environmental determinants that affect transmission of A(H1N1)pdm09 influenza via large and small infectious particles in ferrets	822,731		822,731
Total Number of Successful Projects:					78		
Total Amount of Grants Awarded:					64,464,784		