

The University of Hong Kong
Li Ka Shing Faculty of Medicine
List of Successful Projects in RGC GRF/ECS 2012-13

Project Code	Department	PI	Project Title	Project Fund (HK\$)	ECS Grant Award (HK\$)	Grant Total Awarded (HK\$)	Duration (month)
HKU 765212M	Anatomy	Professor S.K. Chung	Molecular Basis for Diabetes-induced Painless and Painful Neuropathy, and Inability to Structurally and Functionally Recovery after Peripheral Nerve Injury	1,200,000	-	1,200,000	36
HKU 786512M	Anatomy	Dr. M.S.Y. Huen	Role of ATM Signaling in PALB2-dependent Homologous Recombination DNA Repair	1,846,200	100,000	1,946,200	36
HKU 779312M	Anatomy	Professor G.S.W. Tsao	The role of ATM signaling in the lytic replication of Epstein-Barr virus in infected nasopharyngeal epithelial cells	750,000	-	750,000	24
HKU 762312M	Biochemistry	Professor K.S.E. Cheah	Genetic analyses of the roles of Sox2 and Sox18 in hair follicle development	1,200,000	-	1,200,000	36
HKU 767012M	Biochemistry	Dr. J. Huang	Role of kinesin-1 in NMDAR trafficking and cerebral ischemia	850,000	-	850,000	36
HKU 767412M	Biochemistry	Prof. D. Jin	Roles of LKB1 tumor suppressor in human T-cell leukemia virus type I transcription and leukemogenesis	980,000	-	980,000	36
HKU 775712M	Biochemistry	Dr. C. Qian	Structural and Mechanistic Characterization of XPA-associated Complexes in Nucleotide Excision Repair Pathway	1,200,000	-	1,200,000	36
HKU 776312M	Biochemistry	Dr. M.H. Sham	The roles of Irx3 and Irx5 genes in mammalian inner ear morphogenesis	1,300,000	-	1,300,000	36
HKU 776812M	Biochemistry	Professor D.K.Y. Shum	Tuning sulfation of chondroitins at perineuronal nets regulate plasticity of central vestibular synapse	1,050,000	-	1,050,000	36
HKU 777212M	Biochemistry	Dr. Y. Song	Identification of a genetic variant for heart defects (CHD) on chromosome 15 in mice	850,000	-	850,000	36
HKU 778312M	Biochemistry	Dr. J.A. Tanner	Defining the Roles of the Fundamental Macromolecule Inorganic Polyphosphate in Osteoblasts	1,087,500	-	1,087,500	36

The University of Hong Kong
Li Ka Shing Faculty of Medicine
List of Successful Projects in RGC GRF/ECS 2012-13

Project Code	Department	PI	Project Title	Project Fund (HK\$)	ECS Grant Award (HK\$)	Grant Total Awarded (HK\$)	Duration (month)
HKU 783212M	Biochemistry	Dr. K.M. Yao	Secreted PDZ domain-containing protein 2 and regulation of Sonic hedgehog signaling during neural tube development	850,000	-	850,000	36
HKU 762912M	Clinical Oncology	Dr. Y. Cheng	A novel tumor suppressive pathway mediated by BLU gene in nasopharyngeal carcinoma	576,000	-	576,000	24
HKU 768312M	Clinical Oncology	Professor D.L.W. Kwong	PET/CT scan for early response monitoring and radiation dose escalation in locally advanced nasopharyngeal carcinoma	1,169,000	-	1,169,000	36
HKU 786012M	Community Medicine	Dr. Y.H. Chan	PR Interval Prolongation-Induced Abnormal Vascular Function and Cardiovascular Death through Renin-Angiotensin-Aldosterone Activation: A Mendelian Randomization Study	995,744	50,000	1,045,744	36
HKU 780512M	Community Medicine	Dr. C.M. Wong	A cohort study for effects of environmental thermal stress and air pollution on mortality for the older population in Hong Kong	750,000	-	750,000	24
HKU 760212M	Medicine	Dr. L. Bu	Human WT1 epicardial progenitor cells	642,000	-	642,000	36
HKU 760712M	Medicine	Professor D.T.M. Chan	The Role of Annexin II in the Regulation of Inflammation and Fibrosis in Lupus Nephritis	1,010,000	-	1,010,000	36
HKU 763312M	Medicine	Professor B.M.Y. Cheung	Does an elevated lipocalin-2 concentration in plasma lead to endothelial dysfunction and hypertension?	1,158,894	-	1,158,894	30
HKU 766812M	Medicine	Dr. R.L.C. Hoo	Interplay between adipocyte fatty acid binding protein and endoplasmic reticulum stress in toxic lipids-induced inflammation in macrophages	750,000	-	750,000	24
HKU 771712M	Medicine	Dr. G.R. Li	Roles of Functional Ion Channels in Migration and Proliferation of Human Cardiac c-Kit+ Cells	850,000	-	850,000	30

The University of Hong Kong
Li Ka Shing Faculty of Medicine
List of Successful Projects in RGC GRF/ECS 2012-13

Project Code	Department	PI	Project Title	Project Fund (HK\$)	ECS Grant Award (HK\$)	Grant Total Awarded (HK\$)	Duration (month)
HKU 773612M	Medicine	Dr. J.C.W. Mak	Investigating the mechanisms of cigarette smoke-induced disruption of serotonin homeostasis in the airways in vitro and in vivo - relevant to chronic obstructive pulmonary disease	896,236	-	896,236	24
HKU 776912M	Medicine	Dr. D.C.W. Siu	Human Induced Pluripotent Stem Cells as a Disease Modeling and Drug Screening Platform for Friedreich Ataxia	950,000	-	950,000	24
HKU 777712M	Medicine	Professor K.C.B. Tan	Advanced glycation end product receptors in diabetes	850,000	-	850,000	36
HKU 778212M	Medicine	Professor S.C.W. Tang	Exploring the role of bone marrow-derived mesenchymal stromal/stem cells in nephropathies	980,000	-	980,000	36
HKU 779512M	Medicine	Professor H.F. Tse	Therapeutic Effects and Mechanism of Sympathorenal Axis Modulation by Catheter-based Renal Denervation in Porcine Model of Ischemic Heart Failure	1,200,000	-	1,200,000	24
HKU 782612M	Medicine	Dr. A. Xu	The adaptor protein APPL1 as a physiological regulator of insulin secretion in pancreatic β cells	1,010,000	-	1,010,000	36
HKU 784812M	Medicine	Dr. S.S.Y. Yung	The Role of Fibronectin in Peritoneal Inflammation and Fibrosis	950,000	-	950,000	36
HKU 762712M	Microbiology	Dr. Z. Chen	Mechanism of a soluble PD-1-based vaccine in amplifying antiviral CD8+ T-cell immunity	1,100,000	-	1,100,000	36
HKU 777512M	Microbiology	Dr. K.H. Sze	Investigation of the binding of cell wall proteins of <i>Penicillium marneffeii</i> and <i>Aspergillus fumigatus</i> with proinflammatory lipid signaling molecules: A mechanism of pathogen's evasion of host defense?	826,000	-	826,000	24
HKU 785112M	Microbiology	Dr. M. Zhang	Guiding the immune response: a novel approach for HIV-1 vaccine development	1,200,000	-	1,200,000	36
HKU 764512M	Obstetrics & Gynaecology	Dr. C.N. Chiu	Complementary role of sperm sialyl-Lewis(x) binding proteins and sialidase on sperm-zona pellucida interaction	1,143,840	-	1,143,840	36

The University of Hong Kong
Li Ka Shing Faculty of Medicine
List of Successful Projects in RGC GRF/ECS 2012-13

Project Code	Department	PI	Project Title	Project Fund (HK\$)	ECS Grant Award (HK\$)	Grant Total Awarded (HK\$)	Duration (month)
HKU 774212M	Obstetrics & Gynaecology	Dr. E.H.Y. Ng	Control of human decidual macrophage differentiation by glycodelin-A	1,297,160	-	1,297,160	24
HKU 763712M	Orthopaedics & Traumatology	Professor K.M.C. Cheung	Role of cadherin 2 in intervertebral disc development and degeneration	1,346,850	-	1,346,850	36
HKU 773112M	Orthopaedics & Traumatology	Professor K.D.K Luk	Nutritional pathways assessment for allograft disc regeneration: an in vivo MRI study	1,010,000	-	1,010,000	36
HKU 775912M	Orthopaedics & Traumatology	Dr. D. Samartzis	The Role of Adipokines in Intervertebral Disc Degeneration of the Lumbar Spine	1,100,000	-	1,100,000	36
HKU 764712M	Pathology	Dr. W.L. Choi	The roles of FOXP1 and its N-terminally truncated isoforms in the pathogenesis of diffuse large B-cell lymphoma	700,000	-	700,000	36
HKU 768712M	Pathology	Professor C.W. Lam	Identifying the disease gene for a new locus of congenital myasthenic syndrome	450,000	-	450,000	12
HKU 772712M	Pathology	Dr. L. Lu	Roles of leptin in regulating T cell function and autoimmune pathogenesis	950,000	-	950,000	36
HKU 773412M	Pathology	Dr. S.K.Y. Ma	Characterization and clinical evaluation of the metastasis-suppressing function of TP53INP1 in hepatocellular carcinoma	1,000,000	-	1,000,000	36
HKU 774712M	Pathology	Dr. R.K. Ng	The functional role of epigenetic memory in the differentiation plasticity of induced pluripotent stem cells	1,600,000	-	1,600,000	36
HKU 777312M	Pathology	Professor G. Srivastava	Epigenetic silencing of the lymphocyte homing receptor CD44 in reactive germinal center B cells (GCB) and its activation in GCB-derived lymphomas by aberrant promoter hypomethylation	944,972	-	944,972	24
HKU 780612M	Pathology	Dr. C.M. Wong	Deregulation of SETDB1 and its functional roles in liver cancer	1,010,000	-	1,010,000	36
HKU 778012M	Pharmacology & Pharmacy	Dr. E.H.C. Tang	Activation of prostaglandin E receptor 4: a novel anti-inflammatory mechanism that protects against adipose tissue inflammation and obesity-related complications.	850,000	-	850,000	36

The University of Hong Kong
Li Ka Shing Faculty of Medicine
List of Successful Projects in RGC GRF/ECS 2012-13

Project Code	Department	PI	Project Title	Project Fund (HK\$)	ECS Grant Award (HK\$)	Grant Total Awarded (HK\$)	Duration (month)
HKU 779712M	Pharmacology & Pharmacy	Professor P.M.G.R. Vanhoutte	Role of adipose SIRT1 in regulating systemic energy homeostasis and vascular function: focus on biotin, biotinyl enzymes and lipid metabolism	950,000	-	950,000	36
HKU 761812M	Physiology	Professor Y.S. Chan	Long-term depression of inhibitory responses is critical to the maturation of the vestibular circuitry	950,000	-	950,000	36
HKU 766412M	Physiology	Professor Q. Hao	Structural Biology of Human PECAM-1 (CD31) in Cell Adhesion and Leukocyte Transmigration	976,000	-	976,000	36
HKU 768112M	Physiology	Dr. M. Kotaka	Structural determination of Crimean-Congo Haemorrhagic Fever viral nucleocapsid protein	980,000	-	980,000	36
HKU 769912M	Physiology	Professor H.C. Lee	The Calcium Signaling Pathway Mediated by NAADP.	980,000	-	980,000	36
HKU 762412M	Psychiatry	Professor E.Y.H. Chen	The Impacts of Yoga and Aerobic Exercise on Neuro-cognitive Function and Brain Structure in Early Psychosis—A Randomized Controlled Clinical Trial	1,100,000	-	1,100,000	36
HKU 763012M	Psychiatry	Dr. S.S. Cherny	Exome sequencing of mesial temporal lobe epilepsy with hippocampal sclerosis in parent-offspring trios	850,000	-	850,000	24
HKU 776412M	Psychiatry	Professor P.C. Sham	Bioinformatics tools for identifying disease loci from exome sequencing data	1,098,000	-	1,098,000	36
HKU 785612M	Public Health	Dr. H. Zhu	Evolution and Risk assessment studies for 2009 pandemic-like reassortant swine influenza viruses from China	1,200,000	-	1,200,000	36
HKU 764112M	Surgery	Dr. S.T. Cheung	Significance of GEP and ABCB5 / ABCF1 in regulating chemo-resistance and tumor-initiating cell traits in liver cancer	1,010,000	-	1,010,000	36
HKU 766112M	Surgery	Dr. M.M. Garcia-Barcelo	Whole-exome sequencing to uncover causative genes for perinatal biliary atresia	850,000	-	850,000	24

The University of Hong Kong
Li Ka Shing Faculty of Medicine
List of Successful Projects in RGC GRF/ECS 2012-13

Project Code	Department	PI	Project Title	Project Fund (HK\$)	ECS Grant Award (HK\$)	Grant Total Awarded (HK\$)	Duration (month)
HKU 777612M	Surgery	Professor P.K.H. Tam	Study on genomic structural variations in Hirschsprung disease	1,000,000	-	1,000,000	36
HKU 775812M	Chinese Medicine	Dr. J. Rong	Pharmacological induction of leukotriene B4 12-hydroxydehydrogenase (LTB4DH) for the resolution of neutrophil-induced myocardial injury	1,016,355	-	1,016,355	36
HKU 776512M	Chinese Medicine	Dr. J. Shen	Elucidating peroxynitrite as a cellular signaling molecule for regulating proliferation and neuronal differentiation of neural stem/progenitor cells under hypoxic and ischemic conditions	1,010,000	-	1,010,000	36
HKU 780912M	Eye Institute	Professor D.S.H. Wong	To develop a new surgical strategy for removing emulsified droplets in the eye and thereby reducing the complications associated with silicone tamponade.	494,000	-	494,000	18
Total Number of Successful Projects:				59			
Total Amount of Grants Awarded:				59,044,751			