

List of Successful Projects in RGC GRF/ECS 2012-13

Project Code	Department	PI	Project Title	Project Fund (HK\$)	ECS Grant Awarded (HK\$)	Grant Total Awarded (HK\$)	Duration (month)	Panel	Co-I 1	Co-I 2	Co-I 3	Co-I 4	Co-I 5	Co-I 6	Co-I 7	Co-I 8	Co-I 9	Co-I 10	Co-I 11
HKU 765212M	Anatomy	Professor S.K. Chung	Molecular Basis for Diabetes-induced Painless and Painful Neuropathy, and Inability to Structurally and Functionally Recover after Peripheral Nerve Injury	1,200,000	-	1,200,000	36	M											
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	M											
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	M	Dr Chiang Alan Kwok Shing	Dr Huen Michael S.Y.									
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	M											
HKU 767012M	Biochemistry	Dr. J. Huang	Role of kinesin-1 in NMDAR trafficking and cerebral ischemia	850,000	-	850,000	36	M	Mr Lin Raozhou										
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	M	Dr Tang Hei-Man Vincent										
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	M											
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	M	Prof. Hui Chi-chung										
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	M	Prof. Chan Ying Shing	Dr Kwok Jessica Chi Fung	Prof. Fawcett James								
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	M	Prof. Cheah Kathryn SE	Prof. Sham Pak-Chung	Dr Tang Ling Fung								
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	M	Dr Watt Rory Munro	Prof. Magne David	Prof. Buchet Renee								
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	M	Dr Cheung Martin Chi Hang	Prof. Hui Chi-Chung									
HKU 762912M	Clinical Oncology	Dr. Y. Cheng	A novel tumor suppressive pathway mediated by BLU gene in nasopharyngeal carcinoma	576,000	-	576,000	24	M	Prof. Lung Maria Li										
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	M	Prof. Khong Pek Lan	Dr Lee Victor Ho Fun									
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	M											
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	M	Dr Hui Yin-Fun Linda	Prof. Lam Tai-hing	Dr Lai Hak Kan	Dr Yang Lin	Dr Lai Poh-Chin	Dr Thach Thuan Quoc	Prof. Kramer Alexander	Mr Plass Dietrich	Mr Jahn Heiko	Dr Pinheiro Paulo	Prof. Katzschner Lutz
HKU 760212M	Medicine	Dr. L. Bu	Human WT1 epicardial progenitor cells	642,000	-	642,000	36	M	Prof. Li Ronald										

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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	M	Dr Yung Susan										
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	M	Prof. Tse Hung Fat	Prof. Lam Karen Siu Ling	Dr Wang Yu								
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	M	Dr Xu Aimin										
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	M	Dr Cheng Lik-Cheung	Dr Li Xin									
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	M											
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	M	Prof. Tse Hung Fat	Dr Ho Philip Wing Lok									
HKU 777712M	Medicine	Professor K.C.B. Tan	Advanced glycation end product receptors in diabetes	850,000	-	850,000	36	M	Prof. Betteridge John										
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	M	Prof. Tse Hung Fat										
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	M											
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	M	Dr Han Weiping	Dr Cheng King Yip (Kenneth)									
HKU 784812M	Medicine	Dr. S.S.Y. Yung	The Role of Fibronectin in Peritoneal Inflammation and Fibrosis	950,000	-	950,000	36	M	Prof. Chan Daniel Tak Mao										
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	M	Prof. Wei Qiang	Dr Liu Li									
HKU 777512M	Microbiology	Dr. K.H. Sze	Investigation of the binding of cell wall proteins of <i>Penicillium marneffei</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	M	Prof. Yuen Kwok Yung	Prof. Woo Patrick Chiu Yat	Dr Kao Richard Yi Tsun								
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	M											
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	M	Dr Pang Tin-Kai Ronald	Prof. Yeung William Shu Bui									
HKU 774212M	Obstetrics & Gynaecology	Dr. E.H.Y. Ng	Control of human decidual macrophage differentiation by glycodeclin-A	1,297,160	-	1,297,160	24	M	Dr Lee Cheuk Lun	Dr Chiu Philip Chi-Ngong	Prof. Yeung William Shu Bui								
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	M	Prof. Chan Danny	Prof. Keah Kathryn S.E.	Dr Leung Victor Yu-Leong	Prof. Tuan Rocky							

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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	M	Prof. Antony Marina-Portia	Dr Kim Mina	Dr Hu Yong								
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	M	Dr Chan Danny	Prof. Cheung Kenneth MC	Prof. Luk Dip Kei Keith	Prof. Cheung Bernard Man Yung	Dr Leung Victor Yu-Leong	Prof. Yu Wang					
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	M	Prof. Srivastava Gopesh										
HKU 768712M	Pathology	Professor C.W. Lam	Identifying the disease gene for a new locus of congenital myasthenic syndrome	450,000	-	450,000	12	M											
HKU 772712M	Pathology	Dr. L. Lu	Roles of leptin in regulating T cell function and autoimmune pathogenesis	950,000	-	950,000	36	M											
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	M	Prof. To Ka Fai										
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	M	Dr Boheler Kenneth										
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	M	Dr Choi Wai Lap										
HKU 780612M	Pathology	Dr. C.M. Wong	Deregulation of SETDB1 and its functional roles in liver cancer	1,010,000	-	1,010,000	36	M											
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	M	Dr Xu Aimin	Prof. Vanhoutte Paul Michel Georges Remi									
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	M	Dr Wang Yu										
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	M	Prof. Yung Wing-ho	Prof. Shum Daisy Kwok Yan									
HKU 766412M	Physiology	Professor Q. Hao	Structural Biology of Human PECAM-1 (CD31) in Cell Adhesion and Leukocyte Transmigration	976,000	-	976,000	36	M	Dr Liu Qun	Dr Zhang Hongmin									
HKU 768112M	Physiology	Dr. M. Kotaka	Structural determination of Crimean-Congo Haemorrhagic Fever viral nucleocapsid protein	980,000	-	980,000	36	M	Prof. Tan Yee Joo	Prof. Mirazimi Ali									
HKU 769912M	Physiology	Professor H.C. Lee	The Calcium Signaling Pathway Mediated by NAADP.	980,000	-	980,000	36	M											
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	M	Prof. Chan Cecilia L.W.	Dr Chiu Cindy Pui-Yu	Prof. So Kwok-Fai	Ms Lin Jingxia	Dr Chan Kit Wa	Dr Tse Michael	Dr Lam May Mei Ling	Prof. Sham Pak-Chung	Prof. Khong Pek Lan	Dr Chang Wing Chung	Prof. Honer William George
HKU 763012M	Psychiatry	Dr. S.S. Cherny	Exome sequencing of mesial temporal lobe epilepsy with hippocampal sclerosis in parent.	850,000	-	850,000	24	M	Dr Baum Lawrence William	Dr Kwan Patrick	Prof Sham Pak-Chung								
HKU 776412M	Psychiatry	Professor P.C. Sham	Bioinformatics tools for identifying disease loci from exome sequencing data	1,098,000	-	1,098,000	36	M	Dr Cherny Stacey Shawn	Dr Garcia-Barcelo Maria Mercedes	Dr Li Miaoxin	Dr Yang Wanling							
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	M	Dr Smith David Keith	Prof. Guan Yi									

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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	M											
HKU 766112M	Surgery	Dr. M.M. Garcia-Barcelo	Whole-exome sequencing to uncover causative genes for perinatal biliary atresia	850,000	-	850,000	24	M	Prof. Scherer Steve	Dr Cherny Stacey Shawn	Prof. Tam Paul Kwong Hang	Prof. Sham Pak Chung							
HKU 777612M	Surgery	Professor P.K.H. Tam	Study on genomic structural variations in Hirschsprung disease	1,000,000	-	1,000,000	36	M	Prof. Scherer Steve	Dr Cherny Stacey Shawn	Dr Garcia-Barcelo Maria Mercedes	Prof. Sham Pak Chung							
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	M	Prof. Han Yifan	Prof. Lau Allan Sik Yin	Prof. Tse Hung Fat	Dr Li Xuechen	Dr Xia Zhengyuan						
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	M	Prof. So Kwok-Fai	Prof. Chung Sookja Kim	Prof. Yang Dan								
HKU 780912M	Ophthalmology	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	M											