

The University of Hong Kong  
Li Ka Shing Faculty of Medicine

List of Successful Projects in RGC GRF 2011-12

Project Code	Department	PI	Project Title	Awarded (HK\$)	Duration (month)
HKU 763411M	Anaesthesiology	Dr C.W. Cheung	The role of astrocytic ET-1 in neuropathic pain: A study using astrocytic specific ET-1 over-expressing mice (GET-1)	750,000	36
HKU 768211M	Anaesthesiology	Professor M.G. Irwin	Effects of non-invasive remote ischemic preconditioning-induced cardioprotection in Type 1 diabetic rodents: Role of STAT-3 activation	964,800	30
HKU 784011M	Anaesthesiology	Dr Z. Xia	Effects of Adiponectin on Diabetic Heart Sensitivity to Ischemic Postconditioning: Role of STAT-3 activation	1,010,000	36
HKU 763111M	Anatomy	Dr A. Cheung	Id1-induced IGF2 promotes esophageal cancer progression through instigation of stromal fibroblasts and bone marrow-derived vascular progenitor cells	984,000	36
HKU 767811M	Anatomy	Dr M.S.Y. Huen	Molecular and functional characterisation of USP34, a ubiquitin specific peptidase involved in the DNA Damage Response	1,010,000	36
HKU 780911M	Anatomy	Professor G.S.W. Tsao	The role of cyclin D1 in the persistence of Epstein-Barr virus (EBV) infection in premalignant nasopharyngeal epithelial cells.	1,010,000	36
HKU 760411M	Biochemistry	Dr D. Chan	Interplay between ER stress and hypoxic stress in the regulation of chondrocyte differentiation	1,545,995	36
HKU 768811M	Biochemistry	Dr K.H. Kok	Identification of a novel splice isoform of TRBP and characterization of its role in microRNA biogenesis	900,000	36
HKU 776811M	Biochemistry	Dr C. Qian	Structural and Mechanistic Analysis of Human SMARCAL1	1,089,360	36

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HKU 777411M	Biochemistry	Dr M.H. Sham	The roles of Hoxb3 and Jag1 in mediating branchial arch defects in Six1-Eya1 associated Branchio-Oto-Renal syndrome.	1,581,395	36
HKU 777911M	Biochemistry	Professor D.K.Y. Shum	Proheparanase and AMPA receptor trafficking in synaptic plasticity	850,000	36
HKU 781511M	Biochemistry	Dr J.J. Wang	Understanding the co-evolutionary relationship between transcription factors and their DNA binding sites for bHLH family in eukaryotes	950,000	36
HKU 787011M	Biochemistry	Dr Z. Zhou	Isthmin In Fibroblast Growth Factor Signaling and Nodal Signaling during Embryogenesis and Development	980,000	36
HKU 766811M	Clinical Oncology	Professor X. Guan	Characterization of tumor suppressive function and mechanism of CHL1 at a frequent deleted region 3p26.3 in esophageal squamous cell carcinoma	750,000	24
HKU 774411M	Clinical Oncology	Professor M.L. Lung	Role of DNAJB6 epithelial-mesenchymal transition in esophageal squamous cell carcinoma tumorigenesis and metastasis	1,250,000	36
HKU 765811M	Community Medicine	Dr B.J. Cowling	Efficacy of face masks to prevent influenza virus transmission: an experimental study	850,000	24
HKU 769811M	Community Medicine	Professor T.H. Lam	Pubertal muscle mass and diabetes risk	750,000	12

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HKU 783811M	Community Medicine	Dr J.T.K. Wu	Modeling the impact of public reactions against vaccine-induced adverse events on population-wide vaccination against novel emerging infectious diseases	650,000	24
HKU 761511M	Medicine	Dr V.S.F. Chan	Functional characterization of the novel C-type lectin-like receptor CLEC16A and its expression association in systemic lupus erythematosus	980,000	36
HKU 764411M	Medicine	Professor J.C.S. Chim	Study of methylation of microRNA in mantle cell lymphoma	800,000	36
HKU 771611M	Medicine	Dr A.Y.H. Leung	Is sox7 a tumour suppressor in acute myeloid leukemia?	1,050,000	36
HKU 779611M	Medicine	Dr S.C.W. Tang	Exploring the role of the kallikrein-kinin system in diabetic nephropathy	900,000	36
HKU 781111M	Medicine	Professor H.F. Tse	Attenuation of Left Ventricular Remodeling and Improvement of Myocardial Function with Spinal Cord Stimulation in Post-myocardial Infarction Heart Failure	1,010,000	24
HKU 784111M	Medicine	Dr A. Xu	The Liver-derived Hormone FGF21 as a Novel Regulator of Vascular Function: Molecular Basis and Physiological Implications	1,250,000	36
HKU 785611M	Medicine	Dr K.H. Yiu	Mechanism and Reversibility of Myocardial Fibrosis in Patients with Diabetic Cardiomyopathy: Role of Aliskiren.	950,000	36

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HKU 762811M	Microbiology	Dr Z. Chen	A promising mucosal prime and intramuscular boost AIDS vaccine regimen	950,000	36
HKU 770211M	Microbiology	Dr S.K.P. Lau	Genomic and serological characterization of novel animal paramyxoviruses	700,000	36
HKU 776611M	Microbiology	Dr L.L.M. Poon	Retrospective studies of pandemic and seasonal human influenza viral polymerase complexes	560,000	24
HKU 783611M	Microbiology	Professor P.C.Y. Woo	Molecular evolution and interspecies jumping in picornaviruses	552,000	24
HKU 786911M	Microbiology	Dr J. Zhou	Characterization of KLF15 as a crucial transactivator for hepatitis B virus gene expression and viral replication in vitro and in vivo	650,000	24
HKU 760511M	Obstetrics & Gynaecology	Dr D.W. Chan	The functional impact of AMP-activated protein kinase gamma-2 (AMPK-g2) subunit expression on AMPK activity and oncogenesis in ovarian cancer	1,020,000	36
HKU 764611M	Obstetrics & Gynaecology	Dr C.N. Chiu	The roles of protein disulfide isomerase family A, member 3 (ERp57) and surface thiol/disulfide exchange in spermatozoa-zona pellucida binding and their association with fertilization in vitro.	950,000	36
HKU 775711M	Obstetrics & Gynaecology	Dr E.H.Y. Ng	Role of Sirt1 in generation of mouse induced pluripotent stem cells	1,050,000	36
HKU 776411M	Obstetrics & Gynaecology	Professor H.Y.S. Ngan	Functional characterization and clinical significance of DNp73-C35 in ovarian cancer	950,000	36

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HKU 719411E	Orthopaedics & Traumatology	Dr K.W.K. Yeung	Enhancement of the biofunctionality of polyetheretherkytone (PEEK) materials using plasma surface technology	812,000	36
HKU 767511M	Orthopaedics & Traumatology	Dr Y. Hu	Time-frequency pattern analysis of somatosensory evoked potentials for mapping cervical myelopathy	980,000	36
HKU 774211M	Orthopaedics & Traumatology	Professor K.D.K. Luk	Plasticity of Chronically Compressive Spinal Cord After Surgical Decompression – A fMRI Study	850,000	36
HKU 777111M	Orthopaedics & Traumatology	Dr D. Samartzis	The Role of Schmorl's Nodes in Lumbar Intervertebral Disc Degeneration	681,000	36
HKU 746111H	Paediatrics & Adolescent Medicine	Dr P. Ip	The Early Development of Children from different Socioeconomic Backgrounds. Do Our Children need early	753,048	24
HKU 765311M	Paediatrics & Adolescent Medicine	Dr B.H.Y. Chung	Genome-wide DNA methylation profiling in Chinese patients with Systemic Lupus Erythematosus (SLE)	700,000	24
HKU 770411M	Paediatrics & Adolescent Medicine	Professor Y.L. Lau	Identification of coding variants associated with early-onset and familial systemic lupus erythematosus through whole exome sequencing and replication	650,000	24
HKU 781211M	Paediatrics & Adolescent Medicine	Dr W. Tu	Antiviral Activity of Human gammadelta-T Cells against Epstein-Barr Virus Infection	1,020,000	36
HKU 784611M	Paediatrics & Adolescent Medicine	Dr W. Yang	Meta-Analysis of two Asian GWAS datasets for identification of novel genetic variants associated with systemic lupus erythematosus	650,000	24

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Project Code	Department	PI	Project Title	Awarded (HK\$)	Duration (month)
HKU 760911M	Pathology	Dr K.W. Chan	The role of interleukin-8 (IL-8) and efficacy of IL-8 targeted therapy in CD133+ cancer stem cells-driven hepatocellular carcinoma	835,196	24
HKU 763211M	Pathology	Professor A.N.Y. Cheung	FBI-1 (Pokemon) in Gestational Trophoblastic Disease	560,000	24
HKU 771111M	Pathology	Dr K.W. Lee	The significance of Nucleophosmin (NPM) phosphorylation in the progression of hepatocellular carcinoma	650,000	24
HKU 775811M	Pathology	Professor I.O.L. Ng	Significance of RhoE dysregulation in liver cancer and metastasis	1,605,995	36
HKU 778511M	Pathology	Professor G. Srivastava	Molecular features and functional consequences of a novel recurrent t(14;20)(q32;q13.12)/IGHs $\mu$ -PRKCBP1 translocation in gastric and other B-cell non-Hodgkin's lymphomas	1,120,000	36
HKU 782411M	Pathology	Dr C.M. Wong	Polycomb silencing and microRNA deregulation in liver cancer	750,000	24
HKU 783011M	Pathology	Dr M.P. Wong	Investigation of tumor-propagating cells and stemness/differentiation axis pathways in non-small cell lung cancers	900,000	24
HKU 775111M	Pharmacology & Pharmacy	Professor R.Y.K. Man	Peroxisome Proliferator-Activated Receptors and Vascular Function	950,000	36
HKU 781311M	Pharmacology & Pharmacy	Professor P.M.G. Vanhoutte	Vascular protective functions of the anti-aging protein SIRT1 by targeting LKB1/AMPK pathway in endothelial cells: tipping the balance towards vascular homeostasis	1,120,000	36

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HKU 761711M	Physiology	Professor Y.S. Chan	Vestibular nuclear signals regulate the postnatal development of a thalamic network for spatial navigation	1,250,000	36
HKU 763811M	Physiology	Dr K.H. Cheung	Molecular Mechanism of Capacitative Calcium Entry Deficits in Presenilin Mutations and Its Role in Alzheimer's Disease Pathogenesis	980,000	36
HKU 766911M	Physiology	Professor Q. Hao	Structure and Function of the TRPM2 channel	850,000	36
HKU 771011M	Physiology	Professor H.C. Lee	Engineering CD38 for Calcium Signaling	1,300,000	36
HKU 785911M	Physiology	Dr J. Yue	The role of NAADP/two-pore channel 2/Ca <sup>2+</sup> signaling in regulating neural differentiation of mouse embryonic stem cells	1,020,000	36
HKU 769711M	Psychiatry	Dr M.M.L. Lam	Randomized controlled trial of cognitive behavioural therapy for people at high-risk for psychosis	850,000	36
HKU 777511M	Psychiatry	Professor P.C. Sham	Method and Software for Personal Risk Profiling of Complex Diseases	945,000	36
HKU 764111M	Surgery	Dr S.T. Cheung	Combine GEP antibody targeted therapy and chemotherapy for liver cancer treatment in orthotopic mouse model	850,000	36

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HKU 766611M	Surgery	Dr M.M. Garcia-Barcelo	Whole-exome sequencing to identify genes underlying Caudal Regression Syndrome	750,000	24
HKU 774011M	Surgery	Dr V.C.H. Lui	Transcriptional regulation of RET in Hirschsprung's disease	550,000	24
HKU 775011M	Surgery	Dr K. Man	The circulating endothelial progenitor cells mobilized by surgical stress - the potential of tissue repair and the risk of tumor recurrence	950,000	36
HKU 775911M	Surgery	Dr E.K.O. Ng	An investigation into the presence of breast tumor-associated small non-coding RNAs from circulating exosomes	750,000	24
HKU 766211M	Chinese Medicine	Dr Y. Feng	The inhibitory action of berberine on hepatocellular carcinoma	649,550	24
HKU 777611M	Chinese Medicine	Dr J. Shen	Molecular regulations of reactive nitrogen species inhibitors for preventing thrombolysis-induced blood brain barrier disruption and hemorrhagic transformation in experimental cerebral ischemia-reperfusion models	890,000	36
HKU 786611M	Chinese Medicine	Dr Z. Zhang	The identification of central neural network for antidepressant effects of dense cranial electroacupuncture stimulation - a positron emission tomographic (PET) study	900,000	36
<b>Total Number of Successful Projects</b>				67	
<b>Total Amount of Grants Awarded</b>				61,269,339	