

The University of Hong Kong  
Li Ka Shing Faculty of Medicine

List of Successful Projects in RGC GRF 2010-11

Project Code	Department	PI	Project Title	Awarded (HK\$)	Duration (month)
HKU 782910M	Dept of Anaesthesiology	Dr Zhengyuan Xia	The role of iNOS in ischemic postconditioning cardioprotection in normal and diabetic rodents	979,855	36
HKU 762610M	Dept of Anatomy	Dr Annie Lai-man Cheung	Role of Id1-induced IGF2 in autocrine/endocrine promotion of esophageal cancer tumorigenesis and metastasis implications for targeted therapy	986,000	36
HKU 772810M	Dept of Anatomy	Dr Bin Lin	Restoring visual function after photoreceptor degeneration: ectopic expression of photosensitive proteins in retinal neurons.	1,100,000	36
HKU 779810M	Dept of Anatomy	Prof George Sai Wah Tsao	NF-kB activation in the immortalization of nasopharyngeal epithelial cells	1,100,000	36
HKU 761910M	Dept of Biochemistry	Prof Kathryn Song Eng Cheah	Genetic analyses of sensory fate determination in inner ear development	1,200,000	36
HKU 763410M	Dept of Biochemistry	Dr Martin Chi Hang Cheung	In vivo Functional Analysis of Posttranslational Modifications of Sox9 in Neural Crest Development	838,100	36
HKU 767110M	Dept of Biochemistry	Dr Jiandong Huang	Mechanistic study of the roles of kinesin-1 in myofibril assembly	1,168,378	36
HKU 767710M	Dept of Biochemistry	Dr Dong-Yan Jin	Roles of dsRNA-binding protein PACT in RIG-I dependent innate antiviral immunity	986,000	36
HKU 776710M	Dept of Biochemistry	Dr Chengmin Qian	Structural and Functional Analysis of Oncoprotein UHRF1	1,134,550	36
HKU 777410M	Dept of Biochemistry	Dr Mai Har Sham	Enteric neural crest cell migration in the developing gut: Molecular and cellular analyses of a Sox10 mouse mutant	1,000,000	36
HKU 777810M	Dept of Biochemistry	Prof Daisy Kwok Yan Shum	From bone marrow stromal cells to Schwann cells an in vitro route to specification	1,500,000	36

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Project Code	Department	PI	Project Title	Awarded (HK\$)	Duration (month)
HKU 746710H	Dept of Community Medicine	Dr Wendy Wing Tak Lam	The role of goal adjustment on psychological well-being among women diagnosed with advanced breast cancer: a longitudinal study	571,260	30
HKU 767510M	Dept of Community Medicine	Dr Dennis Kai Ming Ip	Host genetic determinants of human influenza infection	598,995	18
HKU 769710M	Dept of Community Medicine	Prof Tai-hing Lam	Are life long sex-steroids causally related to cardiovascular disease in men and women?	640,900	18
HKU 776810M	Dept of Community Medicine	Dr Steven Riley	A longitudinal community study of influenza virus infections in Hong Kong	1,200,000	24
HKU 782710M	Dept of Community Medicine	Dr Joseph Tsz Kei Wu	Potential utility and logistical requirements of real-time surveillance of seroprevalence during an influenza pandemic	620,943	24
HKU 768310M	Dept of Diagnostic Radiology	Dr Mina Kim	Quantitative Evaluation of Chemical Exchange Saturation Transfer and Diffusion Tensor Imaging at 3 Tesla MRI for detection of early degeneration in human lumbar intervertebral discs	785,968	24
HKU 760410M	Dept of Medicine	Prof Daniel Tak Mao Chan	Characterization of renal proximal tubular epithelial cell antigens that mediate anti-dsDNA antibody binding and internalization, and their pathogenic role in lupus nephritis	986,000	36
HKU 768610M	Dept of Medicine	Prof Annie Wai Chee Kung	To determine the functional variants of candidate genes identified by Genome-wide Association Study of Osteoporosis	1,000,000	24
HKU 768910M	Dept of Medicine	Prof Kar Neng Lai	Renin-angiotensin system within the podocytes in IgA nephropathy	1,551,166	36
HKU 769410M	Dept of Medicine	Prof Karen Siu Ling Lam	Obesity, adipose tissue inflammation and atherosclerosis: role of JNK activation	1,300,000	36

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HKU 771110M	Dept of Medicine	Dr Anskar Yu Hung Leung	A novel role of methionine aminopeptidase 2 (MetAP-2) in the regulation of hematopoietic stem cell during definitive hematopoiesis	887,400	36
HKU 772410M	Dept of Medicine	Prof Ronald Adolphus Li	Non-cell autonomous directed maturation of developmentally arrested hESC/iPSC-derived cardiomyocytes	1,683,900	24
HKU 772510M	Dept of Medicine	Dr Qizhou Lian	The Roles of Mesenchymal Stem Cell Produced Stromal Cell-derived Factor-1 and Neuregulin-1 for Cardiac Progenitor Cell-mediated Myocardial Regeneration in Response to Heart Infarction	808,520	24
HKU 774410M	Dept of Medicine	Dr Judith Choi Wo Mak	Effects of cigarette smoke on regulation of the expression of adiponectin and its receptors in airway cells	832,900	24
HKU 777910M	Dept of Medicine	Dr David Chung Wah Siu	Driven Maturation of Embryonic Stem Cell-Derived Cardiomyocytes via Cardiac Hypertrophic Signals	1,200,000	24
HKU 780110M	Dept of Medicine	Prof Hung Fat Tse	Autologous Induced Pluripotent Stem Cells Derived Cardiomyocytes for Cardiac Repair in Porcine Ischemic Cardiomyopathy	1,600,000	24
HKU 780210M	Dept of Medicine	Dr Annette Wai Kwan Tso	Biomarkers of Obesity-related Cardiometabolic Risks in Chinese	609,445	30
HKU 783010M	Dept of Medicine	Dr Aimin Xu	APPL2 as a Negative Regulator of Insulin Sensitivity and Glucose Uptake in Skeletal Muscle: A Novel Pathway Leading to Insulin Resistance?	1,200,000	36
HKU 761210M	Dept of Microbiology	Dr Michael Chi Wai Chan	Effect of allogeneic human mesenchymal stem cells on alveolar fluid clearance and protein permeability in human alveolar epithelial cells injured by influenza H5N1 virus infection	1,500,000	36

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Project Code	Department	PI	Project Title	Awarded (HK\$)	Duration (month)
HKU 762010M	Dept of Microbiology	Dr Honglin Chen	Molecular basis for the regulation of influenza virus by nuclear factor NF90	986,000	36
HKU 768010M	Dept of Microbiology	Dr Richard Yi Tsun Kao	Mechanism of novel antagonists of influenza A nucleoprotein trafficking: A chemical genetics approach	1,000,000	36
HKU 770010M	Dept of Microbiology	Dr Susanna Kar Pui Lau	Molecular characterization of novel animal bocaviruses	664,844	24
HKU 776110M	Dept of Microbiology	Prof Joseph Sriyal Malik Peiris	The role of Toll-like receptor 10 (TLR10) as an innate immune sensor for respiratory viral infections	606,982	24
HKU 783810M	Dept of Microbiology	Dr Hui Ling Yen	Role of influenza hemagglutinin glycoprotein in activation of dendritic cells and induction of effective immune response through C-type lectin receptors	591,600	24
HKU 783910M	Dept of Obstetrics & Gynaecology	Prof William Shu Biu Yeung	Role of microRNA let-7 in implantation of mouse blastocysts	1,032,012	36
HKU 763710M	Dept of Paediatrics & Adolescent Med	Prof Yiu Fai Cheung	Mechanics of Ventricular-Ventricular Interaction in Patients After Tetralogy of Fallot Repair: Analysis by Three-dimensional Speckle Tracking Echocardiography	493,000	24
HKU 769810M	Dept of Paediatrics & Adolescent Med	Prof Allan Sik Yin Lau	A role for oncogenes in the regulation of immune response to Mycobacterial infection	1,479,142	36
HKU 769610M	Dept of Pathology	Dr Queenie Lai Kwan Lam	Leptin regulates Blimp-1 expression: implications in plasma cell development and malignancy	1,084,600	36
HKU 771910M	Dept of Pathology	Prof Suet Yi Leung	Genomics study for new mechanism of tumour suppressor gene silencing by transcriptional interference in colorectal cancer	1,084,600	36

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Project Code	Department	PI	Project Title	Awarded (HK\$)	Duration (month)
HKU 775110M	Dept of Pathology	Prof Irene Oi Lin Ng	Significance of cten dysregulation in hepatocarcinogenesis and cancer metastasis	1,032,000	36
HKU 775510M	Dept of Pathology	Dr Ray Kit Ng	The functional roles of histone H3K9 demethylase Jmjd2 family in determination of trophoblast lineages	1,084,600	36
HKU 783310M	Dept of Pathology	Dr Judy Wai Ping Yam	Interplay of caveolin-1 and met receptor in liver cancer metastasis	887,400	36
HKU 771410M	Dept of Pharmacology & Pharmacy	Dr George Pak Heng Leung	Protective effect of ergothioneine on endothelial cell function against oxidative stress	840,940	24
HKU 774610M	Dept of Pharmacology & Pharmacy	Prof Ricky Ying Keung Man	Protective effects of vitamin D on endothelial dysfunction in hypertension	591,600	24
HKU 780410M	Dept of Pharmacology & Pharmacy	Prof Paul Michel Georges Remi Vanhoutte	Protective effect of lipocalin-2 deficiency on aging- and dietary obesity-induced endothelial dysfunction	1,400,000	36
HKU 761710M	Dept of Physiology	Prof Ying Shing Chan	Brain-derived neurotrophic factor regulates plasticity in the vestibular system	986,000	36
HKU 766110M	Dept of Physiology	Dr Man Lung Fung	Pathophysiological roles of pro-inflammatory cytokines in the carotid body in intermittent hypoxia	1,200,000	36
HKU 766510M	Dept of Physiology	Prof Quan Hao	Structural biology of sirtuins	984,000	36
HKU 768510M	Dept of Physiology	Dr Masayo Kotaka	Towards the understanding of hyperactivation of RIG-I signalling pathway by influenza A H5N1: Structural studies on influenza A viral RNA recognition and discrimination by RIG-I	1,324,160	36

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HKU 770610M	Dept of Physiology	Prof Hon Cheung Lee	Regulation of the Calcium Messenger Cyclic ADP-ribose.	690,200	36
HKU 784710M	Dept of Physiology	Dr Jianbo Yue	Modulation of the neural lineage entry of mouse embryonic stem cells by the CD38/cADPR/Ca <sup>2+</sup> signaling pathway	1,500,000	36
HKU 785110M	Dept of Physiology	Dr Hongmin Zhang	Interaction studies of CD38 with CD4 and anti-CD38 antibodies	1,092,000	36
HKU 774710M	Dept of Psychiatry	Dr Grainne Mary McAlonan	Predicting and preventing schizophrenia in the mouse model.	1,202,183	36
HKU 775710M	Dept of Surgery	Dr Elly Sau Wai Ngan	Premature gliogenesis of enteric neural crest cells induced by aberrant Sonic hedgehog-Notch signalling: a cause of Hirschsprung disease?	1,200,000	36
HKU 778610M	Dept of Surgery	Prof Paul Kwong Hang Tam	Deep Re-Sequencing of Hirschsprung's Disease Candidate Genes	1,000,000	36
HKU 768810M	Eye Institute	Prof Jimmy Shiu Ming Lai	Evaluation of optic nerve damage in non-glaucoma and glaucoma subjects undergoing hemodialysis	1,000,000	36
HKU 773210M	Eye Institute	Dr Amy Cheuk Yin Lo	Neuroprotective effects of lutein in cerebral and retinal ischemia/reperfusion injury: its relation with oxidative stress and post-ischemic inflammation	1,000,000	36
HKU 785210M	LKS Medical Faculty	Dr Mei-Yun Zhang	Identification of HIV-1-specific broadly neutralizing human monoclonal antibodies from the B-cell genomic DNA antibody gene repertoires of HIV-1 infected individuals	1,200,000	36
HKU 777610M	School of Chinese Medicine	Dr Jiangang Shen	Elucidating caveolin-1 as a negative modulating protein for proliferation of neural stem/progenitor cells and neural differentiation in post-ischemic brain	1,084,600	36

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HKU 753510H	School of Nursing	Dr Agnes Tiwari	The differential effects of intimate terrorism and situational couple violence on the mental health of abused Chinese women	212,055	12
<b>Total Number of Successful Projects</b>				61	
<b>Total Amount of Grants Awarded</b>				62,104,798	

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