

**THE UNIVERSITY OF HONG KONG  
LI KA SHING FACULTY OF MEDICINE**

**List of Successful Projects for RGC GRF 2008-09**

<b>Project Code</b>	<b>Department</b>	<b>PI</b>	<b>Project Title</b>	<b>Award (HK\$)</b>	<b>Duration</b>
<b>Li Ka Shing Faculty of Medicine</b>					
760208M	LKS Faculty of Medicine	Dr Roberto Bruzzone	Regulation of early steps of coronavirus infection by the ezrin ERM protein	908,545	24
762208M	LKS Faculty of Medicine	Dr Zhiwei Chen	Mucosal Vaccine against HIV-1 Infection	517,197	12
764008M	Anatomy	Prof Sookja Kim Chung	Role of Epac1, cAMP-regulated guanine nucleotide exchange factor 1, in blood brain barrier maintenance, infarct and neurological deficits during ischemia/reperfusion injury	1,060,726	36
775008M	Anatomy	Prof Kwok Fai So	RAGE (receptor for advanced glycation end products), Abeta (beta-amyloid peptide) and ET-1 (endothelin-1) – probing their effects in glaucoma with transgenic mice over-expressing ET-1 in endothelial or glial cells	1,020,047	36
776608M	Anatomy	Prof George Sai Wah Tsao	The role of STAT activation in regulating persistence of EBV infection in premalignant nasopharyngeal epithelial cell model	1,110,847	36
780508M	Anatomy	Dr Henry Ka Fun Yip	Interactions between inhibitors of DNA binding (Id) and bone morphogenetic proteins (BMPs) in retinal cell specification	922,165	24
760608M	Biochemistry	Dr Danny Chan	Role of Indian hedgehog signaling in phalangeal joint formation and Brachydactylies	1,110,847	36
766108M	Biochemistry	Dr Dong-Yan Jin	Posttranslational modifications of TORC transcriptional coactivators and implications in HTLV-1 pathogenesis	1,689,606	36
774608M	Biochemistry	Dr Daisy Kwok Yan Shum	Role of heparanase in synaptic plasticity at the vestibular nucleus	1,360,184	36
775208M	Biochemistry	Dr You-qiang Song	Detecting genes and functional analysis of a novel gene (Cer1) significantly associated with bone mineral density (BMD) in mice.	1,044,186	36
776108M	Biochemistry	Dr Julian Alexander Tanner	Development of an Aptamer-Nanoparticle Based Rapid Diagnostic Test for Malaria	659,980	24
781808M	Biochemistry	Dr Zhongjun Zhou	Regulation of FGFR signaling by MT1-MMP	1,247,047	36

**THE UNIVERSITY OF HONG KONG  
LI KA SHING FACULTY OF MEDICINE**

**List of Successful Projects for RGC GRF 2008-09**

<b>Project Code</b>	<b>Department</b>	<b>PI</b>	<b>Project Title</b>	<b>Award (HK\$)</b>	<b>Duration</b>
766408M	Diagnostic Radiology	Dr Pek Lan Khong	18F-FDG PET-CT in prognostication and response assessment of aggressive mature T-cell and NK-cell lymphomas	958,027	36
763908M	Medicine	Dr Arthur Chi Kong Chung	Functional role of PPAR interacting protein (PRIP) in diabetic nephropathy	1,110,847	36
765808M	Medicine	Dr Qingyang Huang	Large scale association studies of osteoporosis in Chinese	838,999	24
766708M	Medicine	Prof Annie Wai Chee Kung	Gene Identification for Osteoporosis using a Two Stage Genome-wide Association Strategy in the Chinese Population	2,162,190	24
766908M	Medicine	Prof Kar Neng Lai	Infiltrating leukocytes in the tubulointerstitium of IgA nephropathy: Their role in pathogenesis	1,606,826	36
767208M	Medicine	Prof Karen Siu Ling Lam	Role of JNK in adipose tissue inflammation, adipokine production and systemic insulin resistance	1,016,506	30
767508M	Medicine	Prof Hui Yao Lan	Smad Signaling in Angiotensin II-Mediated Renal Fibrosis	1,721,503	36
767608M	Medicine	Dr Xiao Ru Lan	Mechanisms of Peritoneal Fibrosis: Role of TGF-beta Signaling	922,165	24
769308M	Medicine	Dr Joseph Chi Kam Leung	The role of aldosterone in the pathogenesis of IgA nephropathy	1,119,164	24
770108M	Medicine	Dr Gui-Rong Li	Calcium Signals and Cell Proliferation in Human Cardiac Fibroblasts	1,396,904	36
770308M	Medicine	Prof Raymond Hin Suen Liang	Is Jak2V617F mutation a stem cell event in chronic myeloproliferative disease ?	1,383,247	36
771908M	Medicine	Dr Judith Choi Wo Mak	Effects of intermittent hypoxia and/or cigarette smoking on endothelial injury in vivo - relevant to obstructive sleep apnea	1,159,037	24
773108M	Medicine	Dr Roberta Wen Chi Pang	A study of the modulatory effects of p53 on Pin1-mediated tumor growth, invasion and metastasis in hepatocellular carcinoma	1,292,447	36
774708M	Medicine	Dr David Chung Wah Siu	Long-term Efficacy and Safety of a Gene-based Bio-artificial Pacemaker tested in a large animal Sick Sinus Syndrome Model	1,552,564	36

**THE UNIVERSITY OF HONG KONG  
LI KA SHING FACULTY OF MEDICINE**

**List of Successful Projects for RGC GRF 2008-09**

<b>Project Code</b>	<b>Department</b>	<b>PI</b>	<b>Project Title</b>	<b>Award (HK\$)</b>	<b>Duration</b>
775708M	Medicine	Dr Kathryn Choon-beng Tan	Soluble receptor for advanced glycation end products and diabetic complications	740,565	24
776008M	Medicine	Dr Sydney Chi Wai Tang	Role of N-acetyl-seryl-aspartyl-lysyl-proline in nephropathies	1,292,447	36
776908M	Medicine	Prof Hung Fat Tse	Transplantation of Bioengineered Human Embryonic Stem Cell-derived Cardiomyocytes with Mature Electrical Phenotype in Post-infarction Heart Failure Improves Cardiac Function Without Proarrhythmia	1,129,516	24
777508M	Medicine	Dr Mei Wang	Atrial Mechanical Dyssynchrony and Function in Sinus Node Disease Patients With And Without Atrial Fibrillation: Impacts of Different Modes of Atrial and Ventricular Pacing	598,917	24
779608M	Medicine	Dr Aimin Xu	Protective roles of AMP-activated protein kinase against vascular disease in diabetes: Molecular mechanisms and therapeutic intervention	1,107,306	30
781108M	Medicine	Dr Richard Man Fung Yuen	Transmissibility of hepatitis B virus infection from blood donors with occult hepatitis B infection	566,592	24
781208M	Medicine	Dr Susan Sou Ying Yung	Role of high and low molecular weight hyaluronan in the pathogenesis of lupus nephritis	912,994	30
761208M	Microbiology	Dr Michael Chi Wai Chan	Tissue tropism and innate immune responses of respiratory viruses in primary differentiated human respiratory epithelial cells in vitro and in ex-vivo cultures of lung and nasopharynx	415,682	12
773408M	Microbiology	Dr Leo Lit Man Poon	Codon biases of avian and human influenza A viruses	312,149	24
776808M	Microbiology	Dr Herman Tse	Molecular characterization of anaerobic Gram-negative rods and its clinical significance	287,683	24

**THE UNIVERSITY OF HONG KONG  
LI KA SHING FACULTY OF MEDICINE**

**List of Successful Projects for RGC GRF 2008-09**

<b>Project Code</b>	<b>Department</b>	<b>PI</b>	<b>Project Title</b>	<b>Award (HK\$)</b>	<b>Duration</b>
781008M	Microbiology	Prof Kwok Yung Yuen	Molecular characterization of human coronavirus HKU1	581,541	24
781608M	Microbiology	Dr Bojian Zheng	The Role of Complement Activation in Severe Pneumonia Caused by Avian Influenza Virus H5N1 Infection	506,482	12
763508M	Obstetrics & Gynaecology	Dr Chi Ngong Chiu	Control of human trophoblast invasion by glycodeclin-A	804,125	24
765508M	Obstetrics & Gynaecology	Prof Pak Chung Ho	Combined use of letrozole and misoprostol for medical termination of pregnancy	747,696	24
780308M	Obstetrics & Gynaecology	Prof William Shu Biu Yeung	A study on glycodeclin-A induced differentiation of trophoblast cells	649,765	24
712408E	Orthopaedics & Traumatology	Dr Yong Hu	Dynamic surface electromyography topography for objective assessment of low back pain.	409,059	24
714908E	Orthopaedics & Traumatology	Dr William Weijia Lu	Nano Mechanics of Individual Collagen Fibrils of the Human Intervertebral Discs Using Optical Trap Technique	453,071	24
762608M	Orthopaedics & Traumatology	Prof Kenneth Man Chee Cheung	Uncovering new compounds and mechanisms for treatment of intervertebral disc degeneration by Chemical Genetics	867,685	24
771608M	Orthopaedics & Traumatology	Prof Keith Dip Kei Luk	A functional MRI study of the chronically compressed spinal cord in HUMANS.	758,725	24
763208M	Paediatrics & Adolescent Med	Dr Alan Kwok Shing Chiang	Sequence analysis of Epstein-Barr virus strains in nasopharyngeal carcinoma	695,165	24
768108M	Paediatrics & Adolescent Med	Prof Yu Lung Lau	Immune Responses to Influenza Viruses in the Patients with X-linked Agammaglobulinemia	718,773	24
777108M	Paediatrics & Adolescent Med	Dr Wenwei Tu	The Role of Natural Killer Cells in the Pathogenesis of Avian Influenza Virus Infection	377,365	24
761408M	Pathology	Dr Tsun Leung Chan	Study of the mechanisms underlying heritable germline epimutation of MSH2 in Hereditary Nonpolyposis Colorectal Cancer	1,107,397	24

**THE UNIVERSITY OF HONG KONG  
LI KA SHING FACULTY OF MEDICINE**

**List of Successful Projects for RGC GRF 2008-09**

<b>Project Code</b>	<b>Department</b>	<b>PI</b>	<b>Project Title</b>	<b>Award (HK\$)</b>	<b>Duration</b>
769708M	Pathology	Prof Suet Yi Leung	Molecular and functional characterisation of novel tumour suppressor genes aberrantly down-regulated in colorectal cancer	915,627	36
772608M	Pathology	Prof Irene Oi Lin Ng	Role of mitotic checkpoint gene MAD1 (mitotic arrest deficient 1) in liver cancer	1,020,047	36
778508M	Pathology	Dr Chun Ming Wong	Roles of histone methyltransferases SUV39H1 and SUV39H2 in liver cancer	897,578	30
778708M	Pathology	Dr Maria Pik Wong	Cancer genes alterations and their biological effects in lung cancer	946,990	24
769808M	Pharmacology	Dr Susan Wai Sum Leung	Acceleration of the senescence of the endothelium by high blood pressure	988,191	36
777208M	Pharmacology	Prof Paul Michel Georges Remi Vanhoutte	Causes of Dysfunction in Regenerated Endothelium	996,621	24
777908M	Pharmacology	Dr Yu Wang	Molecular mechanisms underlying the hepato-protective functions of the fat cell-derived hormone adiponectin: potential roles of uncoupling protein 2	1,519,284	36
768408M	Physiology	Prof Hon Cheung Lee	Systemic modulation of cardiovascular functions by a Ca <sup>2+</sup> messenger - Cyclic ADP-ribose	1,441,178	24
775908M	Physiology	Prof Fai Tang	Adrenomedullin in the male sex accessory glands: gene expression, levels and receptor binding, functions and regulation of production in the prostate, seminal vesicle and coagulating gland.	958,103	36
762308M	Psychiatry	Dr Stacey Shawn Cherny	Genome-wide association mapping of susceptibility loci for symptomatic epilepsy	1,570,295	24
762108M	Surgery	Dr Yan Chen	The role of adiponectin in cardiac allograft survival and immune regulation	865,415	24
765008M	Surgery	Dr Maria Mercedes Garcia-Barcelo	Fine mapping of Hirschsprung's disease loci on the 3p21 and 9q31 candidate regions	566,774	18
771308M	Surgery	Dr Vincent Chi Hang Lui	HOXB5 and RET promoter: regulation of RET transcription in Hirschsprung's disease	1,122,197	36

**THE UNIVERSITY OF HONG KONG  
LI KA SHING FACULTY OF MEDICINE**

**List of Successful Projects for RGC GRF 2008-09**

<b>Project Code</b>	<b>Department</b>	<b>PI</b>	<b>Project Title</b>	<b>Award (HK\$)</b>	<b>Duration</b>
772808M	Surgery	Dr Elly Sau Wai Ngan	Thyroid transcription factor-1 (TTF-1), a potential susceptibility gene for familial papillary thyroid carcinoma	1,512,274	36
773508M	Surgery	Prof Ronnie Tung Ping Poon	Study of hypoxia-induced recruitment of bone marrow-derived endothelial progenitor cells (EPCs) in tumor angiogenesis of hepatocellular carcinoma (HCC)	974,647	36
775608M	Surgery	Prof Paul Kwong Hang Tam	Genome-wide association study for the identification of genes underlying anorectal malformations	1,266,337	36
777708M	Surgery	Dr Xiaoqi Wang	Importance of DNA damage mediated S and G2 checkpoint as a protective mechanism in stem cells	779,932	30
764708M	School of Chinese Medicine	Dr Yibin Feng	Mechanism involved in inhibition of tumor cell invasion by berberine derived from Coptis	617,433	24
774408M	School of Chinese Medicine	Dr Jiangang Shen	Interactions of Reactive Nitrogen Species, Caveolins and Matrix Metalloproteinases: A Novel Signal Mechanism in Disruption of Blood Brain Barrier during Ischemic Stroke	1,191,369	36
<b>Total Number of Successful Projects</b>				<b>68</b>	
<b>Total Amount of Grants Awarded</b>				<b>HK\$67,082,795</b>	

Downloaded from the RSS's website at [http://www.hku.hk/local/rss/cergtemp/0809/hku08\\_fac.htm](http://www.hku.hk/local/rss/cergtemp/0809/hku08_fac.htm)

July 2, 2008