

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

List of Successful Projects for RGC CERG 2007-08

Project Code	Department	PI	Project Title	Award (HK\$)	Duration
Li Ka Shing Faculty of Medicine					
HKU 7665/07M	Li Ka Shing Faculty of Medicine	Professor ECW Hui	Ethical Decision-Making and Potential Use of Advance Directives by Hong Kong Chinese Patients with Newly Diagnosed, Recurrent, Meta-static or Terminal Cancer	389,799	24
HKU 7743/07M	Li Ka Shing Faculty of Medicine	Dr J Rong	Molecular characterization of the transcriptional regulatory elements involved in the synergistic induction of heme oxygenase-1 expression by traditional Chinese medicines	857,422	24
HKU 7747/07M	Li Ka Shing Faculty of Medicine	Professor PC Sham	Genome-wide association study of schizophrenia	1,798,990	36
HKU 7636/07M	Anatomy	Dr YP Ching	Functional characterization of a putative tumour suppressor, AMP-activated protein kinase, in liver cancer	1,085,729	36
HKU 7736/07M	Anatomy	Dr WS O	Adrenomedullin in the female reproductive system: gene expression in the ovary and the uterus, possible roles in reproduction and interactions with endothelin-1 and gonadotrophins	1,057,308	36
HKU 7770/07M	Anatomy	Professor GSW Tsao	Mechansims involved in the induction of chromosome instability by the Epstein Barr virus encoded LMP1 protein	1,085,729	36
HKU 7670/07M	Biochemistry	Dr D Jin	Roles and regulation of yeast peroxiredoxins in antioxidant defense and in the maintenance of genome stability	996,943	36
HKU 7752/07M	Biochemistry	Dr DK Smith	Investigation of the Lineage and Tissue Specificity of Genes	488,071	24

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HKU 7765/07M	Biochemistry	Dr JA Tanner	Identification, validation and characterization of the eukaryotic enzymes and regulators of inorganic polyphosphate metabolism	1,157,650	36
HKU 7817/07M	Biochemistry	Dr Z Zhou	Lamin C in Development and Tumorigenesis	1,662,079	36
HKU 7656/07M	Clinical Oncology	Professor XY Guan	Characterization of role and mechanism of eIF-5A2 in tumor metastasis	1,187,199	36
HKU 7626/07M	Medicine	Professor BMY Cheung	Do biomarkers of inflammation and obesity predict the development of hypertension in Hong Kong Chinese?	900,039	27
HKU 7661/07M	Medicine	Professor SL Ho	The role of neuronal uncoupling proteins (UCPs) in mitochondrial dysfunction in Parkinson's disease (PD)	905,112	36
HKU 7664/07M	Medicine	Dr CK Hui	Toll-like Receptor 7 signaling and its implications on regulatory T cells in hepatitis B infection	1,086,658	36
HKU 7667/07M	Medicine	Professor MSM Ip	Exploration of the role of adipocyte fatty acid binding protein in the association of obstructive sleep apnea and metabolic dysfunction	957,132	24
HKU 7674/07M	Medicine	Professor AWC Kung	To identify susceptibility gene(s) at the BMND2 locus on chromosome 1q21-23 for bone mineral density variation in Chinese	1,118,658	24
HKU 7676/07M	Medicine	Professor YL Kwong	The role of Pin1 in tumour invasion and metastasis in hepatocellular carcinoma	1,095,876	36
HKU 7678/07M	Medicine	Professor KN Lai	Podocyte injury in IgA nephropathy	1,448,992	36
HKU 7682/07M	Medicine	Professor HY Lan	Specific Role of Smads in diabetic nephropathy	1,252,647	36

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HKU 7697/07M	Medicine	Dr JCK Leung	IgA1 molecules from familial IgAN: a more pathogenetic entity?	984,376	24
HKU 7764/07M	Medicine	Dr SCW Tang	Mapping the molecular footprints and therapeutic targets of diabetic nephropathy	1,085,729	36
HKU 7771/07M	Medicine	Dr EWC Tse	Post-translational regulation of survivin by peptidyl-propyl-isomerase Pin1 in hepatocellular carcinoma	791,466	24
HKU 7777/07M	Medicine	Dr M Wang	Prevalence and Clinical Implications of Exercise-Induced Left Ventricular Dyssynchrony Detected by Echocardiography In Patients with Coronary Artery Disease	700,896	24
HKU 7797/07M	Medicine	Dr A Xu	APPL1 as a Novel Modulator of Endothelial Nitric Oxide Production and Endothelium-dependent Vasodilation	1,258,228	30
HKU 7619/07M	Microbiology	Dr H Chen	Mapping antigenic sites on haemagglutinin antigen (HA) of H5N1 virus with a panel of H5 specific monoclonal antibodies	385,586	24
HKU 7687/07M	Microbiology	Dr SKP Lau	The role of bats in the origin of severe acute respiratory syndrome coronavirus	740,731	24
HKU 7737/07M	Microbiology	Professor JSM Peiris	Effector roles of cytokine cascades in the pathogenesis of human H5N1 disease	1,397,226	36
HKU 7793/07M	Microbiology	Professor PCY Woo	Mechanistic characterization of a novel virulence factor, Mp1p, in <i>Penicillium marneffeii</i>	948,252	36
HKU 7627/07M	Orthopaedics and Traumatology	Professor KMC Cheung	Roles and properties of notochordal descendent cells in the intervertebral disc	882,789	36
HKU 7147/07E	Orthopaedics and Traumatology	Dr WW Lu	Functionalized multiwalled carbon nanotubes reinforced Sr-HA bioactive bone cement	455,805	24

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HKU 7185/07E	Orthopaedics and Traumatology	Dr KWK Yeung	Development of Novel Biodegradable Metallic Materials for Orthopedics	739,200	36
HKU 7633/07M	Paediatrics and Adolescent Medicine	Dr YF Cheung	Impact of Iron Overload on Left Ventricular Torsion in Patients with Beta-Thalassaemia Major	629,696	24
HKU 7634/07M	Paediatrics and Adolescent Medicine	Dr AKS Chiang	Longitudinal study of phenotypic changes and functionality of Epstein-Barr virus (EBV)-specific CD8+ T cell responses in symptomatic and asymptomatic EBV infection	1,034,994	36
HKU 7637/07M	Paediatrics and Adolescent Medicine	Dr SSS Chiu	A comparison study of humoral and cellular immune responses in very young infants after intradermal versus intramuscular injection of influenza vaccine	670,717	18
HKU 7685/07M	Paediatrics and Adolescent Medicine	Dr ASY Lau	HIV Suppression of the Interferon-gamma Signaling Pathway and Autophagy: implications for Mycobacterial Pathogenesis	1,230,432	24
HKU 7774/07M	Paediatrics and Adolescent Medicine	Dr W Tu	Immune Defense of Human gammadelta-T Cells against Influenza A Viruses	740,731	24
HKU 7673/07M	Pathology	Dr US Khoo	Splicing variant profiling in relation to Estrogen Receptor gene expression in Chinese breast cancer	882,627	24
HKU 7735/07M	Pathology	Dr JM Nicholls	Tissue tropism and cytokine production within the upper and lower respiratory tract of humans following influenza virus infection	667,673	24
HKU 7753/07M	Pathology	Dr JCC So	Role of Chromosomal 6q23 Region in the Modulation of HbF Production	1,418,616	36

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HKU 7756/07M	Pathology	Professor G Srivastava	Genetic and epigenetic mechanisms and clinicopathological significance of the silencing of a 6q22.33-q23.2 putative tumor suppressor PTPRK (protein tyrosine phosphatase, receptor type, kappa) gene in extranodal NK/T-cell lymphoma, nasal type	1,448,992	36
HKU 7798/07M	Pathology	Dr JWP Yam	Nucleocytoplasmic shuttling mechanism of DLC1 tumor suppressor in liver cancer	1,388,110	36
HKU 7696/07M	Pharmacology	Dr GPH Leung	Nimodipine suppresses chemokine release via inhibition of adenosine uptake in endothelial cells	954,000	30
HKU 7699/07M	Pharmacology	Dr SWS Leung	Regulation of endothelial-derived hyperpolarizing factor-mediated responses in physiological and pathological conditions	1,088,534	36
HKU 7723/07M	Pharmacology	Professor RYK Man	Mechanism for the modulation of vascular function by flavonoids	1,065,435	36
HKU 7775/07M	Pharmacology	Professor PMGR Vanhoutte	Endothelium-Derived Contracting Factor (EDCF) in Spontaneous Hypertension	791,466	24
HKU 7614/07M	Physiology	Professor YS Chan	Postnatal γ -aminobutyric acid transmission is critical for the formation of a three-dimensional spatial map	1,408,404	36
HKU 7691/07M	Physiology	Professor HC Lee	A calcium-signaling pathway mediated by cyclic ADP-ribose and NAADP	1,546,403	36
HKU 7762/07M	Physiology	Professor F Tang	Adrenomedullin as a new metabolic hormone: its metabolic actions in the skeletal muscles, adipose tissues and liver, interaction with endothelin and other adipokines, and possible roles in metabolic syndrome	984,259	36

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HKU 7654/07M	Surgery	Dr MM Garcia-Barcelo	Functional evaluation of RET coding and non-coding sequence mutations in Hirschsprung's disease	984,259	36
HKU 7716/07M	Surgery	Dr JMC Luk	Cadherin-17 Signaling in Tumorigenesis and Metastasis	1,119,721	36
HKU 7759/07M	Surgery	Professor PKH Tam	Genetic dissection of Hirschsprung's disease	1,781,813	36
HKU 7779/07M	Surgery	Dr X Wang	Chemo resistant cells contain cancer stem like cells and the potential role of Oct4 in cancer stem cell metastasis and drug resistance	995,448	36
HKU 7780/07M	Genome Research Centre	Dr Y Wang	The potential role of lipocalin-2 as an inflammatory adipokine that links obesity with insulin resistance and metabolic disorders	887,863	30
Total Number of Successful Projects				53	
Total Amount of Grants Awarded				54,622,510	

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