

**The University of Hong Kong
Li Ka Shing Faculty of Medicine**

List of Successful Projects for RGC GRF 2009-10

Project Code	Department	PI	Project Title	Award (HK\$)	Duration
766709 M	Dept of Anaesthesiology	Professor MG Irwin	NADPH Oxidase Over Expression in the Myocardium of Diabetic Rats Compromises Opioid Agonist Induced Cardioprotection	661,290	30
773509 M	Dept of Anaesthesiology	Dr. JKF Ng	Vascular effects of dexmedetomidine	566,820	24
781109 M	Dept of Anaesthesiology	Dr. Z Xia	Synergy between N-acetylcysteine, allopurinol and/or PKC-beta inhibition attenuates diabetic cardiomyopathy in the rat	789,890	36
761609 M	Dept of Anatomy	Dr. RCC Chang	Elucidating the pathophysiological significance of endoplasmic reticulum aggregation in neurons stressed by β -amyloid peptide and in Alzheimer's disease	1,228,110	36
763509 M	Dept of Anatomy	Dr. YP Ching	Functional characterisation of a novel centrosomal protein, TAX1BP2, in liver cancer development	1,000,000	36
776109 M	Dept of Anatomy	Professor KF So	Role of JNK3/APP signaling pathway in modulating the apoptosis of optic axotomized retinal ganglion cells	944,700	36
777809 M	Dept of Anatomy	Professor GSW Tsao	The impact of Bmi-1 expression on mitosis and cancer	1,200,000	36
766809 M	Dept of Biochemistry	Dr. D Jin	Identification and characterization of the cellular targets of miR-BART5, an Epstein-Barr virus-encoded microRNA	1,200,000	36
775209 M	Dept of Biochemistry	Dr. MH Sham	Sonic hedgehog signaling and cross talks with Hox genes in hindbrain neurogenesis	661,290	24
777109 M	Dept of Biochemistry	Dr. JA Tanner	New approaches in the nuclear delivery and targeting of aptamers to augment osteoblast activity for osteoporosis	1,100,000	36
778609 M	Dept of Biochemistry	Dr. JJ Wang	Evolution and functional specialization of alternative promoters in humans	850,230	36
772309 M	Dept of Clinical Oncology	Dr. HL Lung	The role of serum amyloid A1 (SAA1) in nasopharyngeal carcinoma	1,100,000	36
780909 M	Dept of Community Medicine	Dr. JTK Wu	Optimizing the use of antivirals during the next influenza pandemic: From the perspective of an individual or a household	472,350	24
760309 M	Dept of Medicine	Professor DTM Chan	The role of annexin II in the pathogenesis of lupus nephritis	615,060	36
763109 M	Dept of Medicine	Professor RTF Cheung	Evaluation of key mechanisms of brain injury and of a novel hemostatic treatment in a rat model of hypertensive intracerebral hemorrhage	1,100,000	36
763409 M	Dept of Medicine	Dr. JCS Chim	Functional study of the impact of hypermethylation of tumor suppressive micro-RNA in myeloma stem cells	944,700	36
768209 M	Dept of Medicine	Professor KSL Lam	Adipocyte fatty acid binding protein as a novel mediator of obesity-related fatty liver disease	755,760	24
769809 M	Dept of Medicine	Dr. AYH Leung	Is aldehyde dehydrogenase a negative regulator of primitive hematopoiesis during embryonic development?	1,100,000	36
774309 M	Dept of Medicine	Dr. RWC Pang	Study of a novel role of Pin1 in regulating invasiveness and metastasis of hepatocellular carcinoma via Rho signaling	1,039,170	36
776709 M	Dept of Medicine	Dr. KCB Tan	Reverse cholesterol transport and diabetic nephropathy	1,100,000	30
777009 M	Dept of Medicine	Dr. SCW Tang	Role of bone morphogenetic protein-7 in diabetic nephropathy	1,200,000	36
778509 M	Dept of Medicine	Dr. J Wang	Characterization of the role and mechanisms of FHL2 in promoting epithelial mesenchymal transition of colon cancer	708,525	24

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781309 M	Dept of Medicine	Dr. A Xu	Characterization of Novel Adaptor Proteins Involved in Regulating Insulin Sensitivity and Glucose Homeostasis: from Molecular Mechanism to Physiological Implication	1,500,000	36
782809 M	Dept of Medicine	Professor RMF Yuen	Genetic and epigenetic analyses of occult hepatitis B virus infection	661,290	24
783009 M	Dept of Medicine	Dr. SSY Yung	The role of decorin in peritoneal inflammation and fibrosis	944,700	30
761009 M	Dept of Microbiology	Dr. MCW Chan	Influenza A (H5N1) virus infection in human primary type I and type II alveolar epithelial cells: Cell tropism, inflammatory responses and apoptosis	700,000	24
762609 M	Dept of Microbiology	Dr. CY Cheung	Mechanism of action for the regulation of COX-2 dependent genes in human macrophages after infection with low and high pathogenic coronavirus and influenza viruses	944,700	36
765809 M	Dept of Microbiology	Professor Y Guan	Long-term surveillance for bat-borne viruses: An insight into viral ecology, evolutionary dynamics, and the source of zoonoses	1,900,000	36
768709 M	Dept of Microbiology	Dr. SKP Lau	The role of a novel rhinovirus species, rhinovirus C, in respiratory illness and its molecular epidemiology	531,216	24
780709 M	Dept of Microbiology	Professor PCY Woo	Understanding "interclass jumping" between mammalian and avian coronaviruses	700,000	24
782209 M	Dept of Obstetrics & Gynaecology	Professor WSB Yeung	Characterization of Stem/Progenitor Cells in Human Endometriosis	944,700	36
124009 E	Dept of Orthopaedics & Traumatology	Dr. KWK Yeung	Development of a novel method to suppress bacterial adhesion on orthopaedic implant surface using plasma-based technology	976,608	36
772209 M	Dept of Orthopaedics & Traumatology	Professor KDK Luk	A mesenchymal stem cell-based approach to rescue intervertebral disc allograft from post-transplantation degeneration	676,000	30
783709 M	Dept of Orthopaedics & Traumatology	Dr. G Zhou	Molecular Analysis of the BMP-2 Action on Intervertebral Disc Cells	804,884	36
763309 M	Dept of Paediatrics & Adolescent Med	Professor YF Cheung	Right and Left Ventricular Mechanical Dyssynchrony in Iron Loaded Patients with Beta-Thalassaemia Major	614,055	24
768509 M	Dept of Paediatrics & Adolescent Med	Professor ASY Lau	Mycobacteria Evasion of Immunity: a Potential Role for IL-10 and its consequent Suppression of MHC Antigen Expression	944,700	36
781709 M	Dept of Paediatrics & Adolescent Med	Dr. W Yang	Mapping Susceptibility Genes for Systemic Lupus Erythematosus (SLE) through a Genome-Wide Association Study	755,760	24
771809 M	Dept of Pathology	Dr. L Lu	Role of leptin in regulating B cell maturation and function	1,100,000	36
773709 M	Dept of Pathology	Dr. RK Ng	Genome-wide analysis of DNA methylation patterns in MLL-rearranged leukaemia stem cells	800,000	24
774109 M	Dept of Pathology	Dr. JM Nicholls	Influenza and sialic acid linked glycan interactions using virus like pseudoparticles (VLP) and STD-NMR	1,200,000	36
776309 M	Dept of Pathology	Professor G Srivastava	Inactivation of the transcriptional repressor PRDM1 and imbalance in the expression of PRDM1 α and β isoforms in NK-cell malignancies, and their roles in the pathogenesis	1,100,000	36
770109 M	Dept of Pharmacology & Pharmacy	Dr. GPH Leung	Abacavir, an antiviral nucleoside analogue, increases the risk of cardiovascular events by causing endothelial dysfunction	755,760	36

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761409 M	Dept of Physiology	Professor YS Chan	Determinants of developmental plasticity in the vestibular system	1,200,000	36
765909 M	Dept of Physiology	Professor Q Hao	A new method for macromolecular structure determination: envelope-based phasing	1,092,000	36
769309 M	Dept of Physiology	Professor HC Lee	Structure and Function of the ADP-ribosyl Cyclases.	978,709	36
782709 M	Dept of Physiology	Dr. J Yue	Dissecting the mechanism and function of the CD38/cADPR/Ca ²⁺ signaling in PC12 cell proliferation and differentiation	827,764	24
762309 M	Dept of Psychiatry	Dr. SS Cherny	Genotype by risk factor interactions in cognitive decline: The Guangzhou Biobank Cohort Study	197,650	36
764009 M	Dept of Psychiatry	Dr. SE Chua	MRI brain scan to predict 1 year outcome in newly-diagnosed schizophrenia.	650,000	36
765609 M	Dept of Surgery	Dr. MM Garcia-Barcelo	Identification of functional variants in Neuregulin-1 (NRG1), a newly discovered Hirschsprung's disease gene	802,995	24
772109 M	Dept of Surgery	Dr. JMC Luk	Dissecting YAP oncogenic function and its therapeutic implications in liver cancer	850,230	36
773909 M	Dept of Surgery	Dr. ESW Ngan	Prokineticin signaling in neuroblastoma	755,760	24
778809 M	Dept of Surgery	Dr. X Wang	The link between adult stem cells and chimerism of liver transplantation	1,220,112	36
762209 M	LKS Faculty of Medicine	Dr. Z Chen	Role of the PD-1/PD-L pathway in HIV-1 vaccine design	944,700	36
Total Number of Successful Projects				53	
Total Amount of Grants Awarded				48,412,188	

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