

**THE UNIVERSITY OF HONG KONG
FACULTY OF MEDICINE**

List of Successful Projects for RGC CERG 2005-06

Faculty of Medicine				
HKU 7651/05M	Anatomy	Dr HKF Yip	The role of telomerase in protecting retinal ganglion cells against axonal injury	1,271,914
HKU 7699/05M	Anatomy	Dr RCC Chang	Elucidation of the functional roles of PKR in death receptor adaptors-mediated β -amyloid peptide neurotoxicity and in Alzheimer's disease	700,325
HKU 7589/05M	Biochemistry	Dr JA Tanner	Evolution, validation and delivery of aptamer-based inhibitors that target the SARS coronavirus	982,800
HKU 7636/05M	Biochemistry	Dr J Huang	Role of kinesin-mediated intracellular transportation in Alzheimer's Disease	1,360,957
HKU 7650/05M	Biochemistry	Dr KM Yao	Activation of FOXM1 by the Raf/MEK/MAK pathway and regulation of cell cycle progression at the G2/M phase	1,447,914
HKU 7683/05M	Biochemistry	Dr D Jin	Roles for p21-activated protein kinase 3 in HTLV-I pathogenesis	1,571,828
HKU 7696/05M	Biochemistry	Professor KSE Cheah	Functional and genetic analyses of the role of type IIA procollagen in morphogenesis and as a regulator of BMP and TGF β signaling	718,957
HKU 7698/05M	Biochemistry	Dr Z Zhou	Genomic instability and premature aging in mice lacking Zmpste24	1,847,828
HKU 7705/05M	Biochemistry	Dr MH Sham	Investigating the molecular basis of Sox10 functions in enteric nervous system development using a series of mutant mouse models	1,360,957
HKU 7448/05H	Community Medicine	Dr SM McGhee	Economic impact of smoking: current burden and future trends	672,004
HKU 7688/05M	Genome Research Centre	Dr Y Song	Mapping a genetic modifier for heart defects in Type IIA procollagen deficient mutant mice	1,635,606
HKU 7524/05M	Medicine	Professor AWC Kung	To discover new genes in chromosome 14q11-32 for the determination of osteoporosis and bone mineral density	718,957
HKU 7546/05M	Medicine	Dr JCK Leung	Is there a reno-protective role of bone morphogenetic protein-7 in IgA nephropathy?	1,005,914
HKU 7548/05M	Medicine	Professor RHS Liang	Effects of all-trans retinoic acid (ATRA) on stromal cells and haematopoietic stem cell engraftment	585,957
HKU 7585/05M	Medicine	Dr KCB Tan	Glycosidized LDL and atherosclerosis	718,957

HKU 7593/05M	Medicine	Dr EWC Tse	Characterization of the interaction between Pin1 and HBx in human hepatocellular carcinoma	1,171,914
HKU 7594/05M	Medicine	Dr HF Tse	Embryonic stem cell transplantation as a novel therapy for post-infarct left ventricular remodeling	698,957
HKU 7609/05M	Medicine	Dr A Xu	Angiopoitein-like protein 4 (ANGPTL4) as a novel therapeutic target for the treatment of insulin resistance and hyperglycemia	1,458,040
HKU 7637/05M	Medicine	Professor KSL Lam	Macrophage-adipocyte cross-talk in the initiation of obesity-related insulin resistance and type 2 diabetes: role of adiponectin	901,957
HKU 7488/05M	Microbiology	Dr H Chen	Molecular basis of genesis and determinants for pathogenicity of avian influenza H5N1 virus genotype Z	934,957
HKU 7531/05M	Microbiology	Dr SKP Lau	Antibiotic susceptibility profiles and cloning and characterization of antibiotic resistance genes of <i>Laribacter hongkongensis</i>	666,957
HKU 7616/05M	Microbiology	Professor KY Yuen	The role of a novel coronavirus, coronavirus HKU1, in respiratory illness and its epidemiology and molecular evolution	718,957
HKU 7514/05M	Obstetrics and Gynaecology	Professor PC Ho	Role of olfactomedin in implantation	1,109,957
HKU 7537/05M	Obstetrics and Gynaecology	Dr CKF Lee	Functional characterization of VAD1.3, a novel acrosome-specific protein by conditional tissue-specific gene inactivation	884,957
HKU 7496/05M	Orthopaedics and Traumatology	Dr KMC Cheung	Intervertebral disc regeneration by use of mesenchymal stem cells	1,171,914
HKU 7532/05M	Paediatrics and Adolescent Medicine	Professor YL Lau	Immune response of cord blood macrophages and dendritic cells to the 1997 and 2004 strains of avian influenza viruses	1,105,914
HKU 7679/05M	Paediatrics and Adolescent Medicine	Dr GCF Chan	Influence of <i>MYCN</i> amplification on the response of neuroblastoma to arsenic trioxide (As ₂ O ₃) in-vitro and in-vivo	718,957
HKU 7497/05M	Pathology	Dr YP Ching	Roles of p21-activated protein kinase (Pak) 1 in the pathogenesis of liver cancer	1,271,914
HKU 7520/05M	Pathology	Dr US Khoo	Gene-based and haplotype analysis of the estrogen receptor genes for breast cancer susceptibility	718,957
HKU 7583/05M	Pathology	Professor G Srivastava	Molecular mechanisms and clinicopathological significance of the aberrant nuclear BCL10 expression and constitutive NF- κ B activation in EBV-associated nasal NK/T-cell lymphoma	902,957

HKU 7622/05M	Pathology	Dr TL Chan	Molecular characterisation of the serrated neoplasia pathway and its role in the development of colorectal cancer with mismatch repair deficiency	1,171,914
HKU 7499/05M	Pharmacology	Professor CH Cho	Cyclooxygenase-2 and its upstream signal transduction mediators in the promotion of gastric cancer development by cigarette smoke	1,034,957
HKU 7485/05M	Physiology	Professor YS Chan	Development of glutamate transmission and frequency responsiveness in central vestibular neurons	1,377,914
HKU 7579/05M	Psychiatry	Professor PC Sham	A systematic screen for schizophrenia susceptibility loci in high-LD, gene-rich chromosomal regions implicated by meta-analysis of whole genome linkage scans	701,293
HKU 7655/05M	Psychiatry	Dr EYH Chen	Duration of maintenance anti-psychotic therapy after first-episode schizophrenia: a double-blind randomized placebo-control relapse prevention study	287,477
HKU 7509/05M	Surgery	Dr MM Garcia-Barcelo	Study of the molecular basis of anorectal malformations	1,317,914
HKU 7550/05M	Surgery	Dr CL Lin	The role of L-SIGN (CD290L) in SARS coronavirus infection	718,957
HKU 7551/05M	Surgery	Dr CL Liu	Portal vein embolization before major right hepatic resection for hepatocellular carcinoma: a prospective randomized study	678,368
HKU 7557/05M	Surgery	Dr VCH Lui	Functional analysis of <i>Hoxb5</i> in enteric neurons in mice	1,447,914
HKU 7561/05M	Surgery	Dr K Man	Fat-derived hormone adiponectin as a novel therapy for fatty liver graft injury	718,957
HKU 7575/05M	Surgery	Dr RTP Poon	Enhancement of therapeutic efficacy of hypoxia and chemotherapy in hepatocellular carcinoma by blockade of vascular endothelial growth factor receptors	1,005,914
Total Number of Successful Projects				41*
Total Amount of Grants Awarded				HK\$41,499,720*

Note:

* Including one successful project (award amount of HK\$672,004) funded under the Humanities, Social Sciences and Business Studies Panel submitted by the Department of Community Medicine.

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