

**List of Projects Supported by RGC CERG 2004-2005
(Faculty of Medicine, HKU)**

Faculty of Medicine				
7358/04M	Dr. W.T. Wu	Anatomy	The role of neuronal nitric oxide synthase in motoneuron degeneration	939,968
7457/04M	Professor G.S.W. Tsao	Anatomy	Defining the genetic elements involved in immortalization and malignant transformation of primary nasopharyngeal epithelial cells	939,968
7470/04M	Professor Y.C. Wong	Anatomy	The role of Id-1 gene in initiation of prostate carcinogenesis	1,857,250
7303/04M	Dr. D. Chan	Biochemistry	Genomic analysis of the regulation of osteoblast activity in a mouse with generalized hyperostosis	939,968
7321/04M	Dr. J.D. Huang	Biochemistry	Functions of the ubiquitously expressed kinesin in Purkinje neurons	1,739,500
7474/04M	Dr. K.M. Yao	Biochemistry	Investigating the functional involvement of PDZD2 in the regulation of pancreatic beta cell gene expression and function	939,968
7496/04M	Dr. Y.Q. Song	Biochemistry	Mapping and cloning a new gene on chromosome 8q24 for amyotrophic lateral sclerosis in a large Chinese family	939,968
7393/04M	Dr. X.Y. Guan	Clinical Oncology	Characterization of roles of a novel oncogene ALC-1 in the development of hepatocellular carcinoma	1,636,760
7221/04H	Professor T.H. Lam	Community Medicine	A population based, longitudinal study of eating disturbances in Hong Kong Chinese boys and girls	996,555
7241/04H	Dr. R.Y.T. Yeung	Community Medicine	The economics of vaccines: willingness to pay and values clarification	381,570
7313/04M	Dr. S.K. Chung	Institute of Molecular Biology	Genetic approaches to understand the pathogenesis of diabetic neuropathy: common, debilitating disease	1,669,500
7328/04M	Professor H.F. Kung	Institute of Molecular Biology	Characterizing the role of P13K signaling cascade in Xenopus neural induction	1,351,500
7390/04M	Dr. S.S.M. Chung	Institute of Molecular Biology	Aldose reductase in diabetic cataract	939,968
7394/04M	Dr. M.L. He	Institute of Molecular Biology	The mechanisms of a novel HCC-associated oncogene (HCAO) in hepatocellular carcinogenesis	939,968
7405/04M	Professor S.K. Lam	Medicine	Treatment of gastrointestinal cancer by targeting survivin using adeno-associated virus gene delivery system	939,968
7366/04M	Professor D.T.M. Chan	Medicine	Effects of mycophenolate mofetil and cyclophosphamide on mesangial cell proliferation and function in MRL/1pr mice with lupus nephritis	939,968
7379/04M	Dr. R.T.F. Cheung	Medicine	Use of functional magnetic resonance imaging to predict benefits of acupuncture for stroke patients with persistent motor or language deficits	681,174

7403/04M	Professor K.N. Lai	Medicine	The role of the renin-angiotensin system in the tubulointerstitial injury of IgA nephropathy (IgAN)	1,261,400
7404/04M	Professor K.S.L. Lam	Medicine	Linking the metabolic syndrome with progressive atherosclerosis: role of fat-derived hormones	939,360
7409/04M	Professor W.C.S. Lau	Medicine	Complement deficiency and dendritic cell function in the pathogenesis of systemic lupus erythematosus	939,968
7415/04M	Mr. J.C.K. Leung	Medicine	Peritoneal membrane dysfunction in continuous ambulatory peritoneal dialysis (CAPD): the role of connective tissue growth factor (CTGF)	939,968
7452/04M	Dr. S.C.W. Tang	Medicine	Regulation of albumin-induced chemokine expression in human proximal tubular epithelial cells by angiotensin antagonists and HMG-CoA reductase inhibitors	1,075,760
7459/04M	Dr. H.F. Tse	Medicine	Functional role of pacemaker current, I(f) in sinoatrial node probed by somatic gene transfer of bioengineered HCN channels in swine	1,051,280
7472/04M	Dr. H.H.X. Xia	Medicine	Role of cyclooxygenase in helicobacter pylori-induced gastric carcinogenesis	1,521,500
7486/04M	Dr. A.M. Xu	Medicine	Characterization of the receptor and postreceptor events that underlie the anti-atherogenic and anti-diabetic actions of adiponectin	1,414,530
7488/04M	Dr. A.Y.H. Leung	Medicine	A study of normal and deregulated haematopoiesis in zebrafish, with special reference to the role of BMP signaling in haematopoietic stem cell proliferation	1,525,920
7495/04M	Dr. J.G. Shen	Medicine	Plasma membrane cholesterol homeostasis and oxidative stress: implication for neuronal oxidative damage in ischemia stroke	939,968
7343/04M	Dr. L.L.M. Poon	Microbiology	Splicing of influenza A virus	939,968
7357/04M	Dr. P.C.Y. Woo	Microbiology	The role of a novel bacterium, Laribacter hongkongensis, in gastroenteritis, and its epidemiology and pathogenesis	522,034
7368/04M	Dr. K.K.L. Chan	Obstetrics & Gynaecology	Iron supplement in pregnancy and development of gestational diabetes - a randomized placebo-controlled trial	937,810
7395/04M	Professor P.C. Ho	Obstetrics & Gynaecology	Endocrine gland derived vascular endothelial growth factor (EG-VEGF) in human endometrium	809,000
7411/04M	Dr. C.K.F. Lee	Obstetrics & Gynaecology	The molecular interaction between human oviductal embryotrophic factor-3 and embryo	939,968
7378/04M	Dr. K.M.C. Cheung	Orthopaedics and Traumatology	The impact of the COL9A2 Q326W allele on intervertebral disc structure and degeneration	939,968
7386/04M	Professor S.P. Chow	Orthopaedics and Traumatology	Novel prosthetic replacements for metacarpophalangeal (MCP) joints	939,968
7408/04M	Dr. A.S.Y. Lau	Paediatrics and Adolescent Medicine	Immune dysregulation in HIV infection - mechanism of mycobacterial pathogenesis	863,968

7304/04M	Professor L.C. Chan	Pathology	Ras signaling in human leukaemia	939,968
7309/04M	Dr. A.N.Y. Cheung	Pathology	Stem cell related genes in gestational trophoblastic diseases	939,968
7311/04M	Dr. Y.P. Ching	Pathology	Roles and regulation of group II p21-activated protein kinases:-implications in cancer metastasis	939,968
7397/04M	Dr. F.P. Huang	Pathology	Molecular characterization of dendritic cells functionally modulated by dying cells - mechanism for the induction and regulation of autoimmune responses by dendritic cells (II)	1,739,500
7423/04M	Dr. L.W. Lu	Pathology	Natural killer cells and the pathogenesis of autoimmunity	939,968
7436/04M	Professor I.O.L. Ng	Pathology	Functional characterization of DLC1 gene, a novel tumour suppressor gene frequently deleted in liver cancer	1,986,880
7448/04M	Professor G. Srivastava	Pathology	Role of CD44 and protein kinase C-binding protein 1, novel translocation partners of immunoglobulin heavy chain gene, in the pathogenesis of gastric lymphoma	1,351,500
7468/04M	Dr. M.P. Wong	Pathology	Differentially expressed genes in lung cancer	787,968
7312/04M	Professor C.H. Cho	Pharmacology	Nicotine and its active metabolite in the tumorigenesis of colon cancer	939,968
7370/04M	Professor Y.S. Chan	Physiology	Development of commissural inhibition in the vestibular system	1,351,500
7451/04M	Professor F. Tang	Physiology	Adrenomedullin in the rat testis: paracrine actions and its interaction with endothelin	845,728
7339/04M	Dr. V.C.H. Lui	Surgery	Conditional knockout of Patched gene in enteric neural crest cells: functional study of the role of Hedgehog signaling in enteric nervous system development	1,208,400
7392/04M	Dr. M.M. Garcia-Barcelo	Surgery	RET regulatory polymorphisms and susceptibility to Hirschsprung's disease	1,554,040
7428/04M	Dr. K. Man	Surgery	The significance of graft size on tumor recurrence after liver transplantation	939,968
7479/04M	Professor P.W. Yuen	Surgery	The evaluation of the clinical application of hypermethylated promoter DNA as tumor marker of nasopharyngeal carcinoma	808,468
Total number of successful projects obtained by the Faculty of Medicine				50*
Total amount of grants (HK\$)				54,549,651*

(The award list of the Faculty of Medicine is downloaded from the Research Services website at <http://www.hku.hk/local/rss/cergtemp/hku04fac.htm>.)

Note:

* Including 2 successful projects (award amount of HK\$1,378,125) under the Human, Social Sciences and Business Studies Panel submitted by the Department of Community Medicine.