## List of Projects Supported by RGC CERG 2003-2004 (Faculty of Medicine, HKU)

Faculty of	Medicine			
7385/03M	Anatomy	Dr. A.L.M. Cheung	Telomere erosion and initiation of chromosomal instability in human cells undergoing immortalization	624,000
7475/03M	Anatomy	Dr. G.S.W. Tsao	Functional analysis of expression of EBV encoded RNAs (EBERs) in nasopharyngeal epithelial cells	624,000
7478/03M	Anatomy	Dr. X.H. Wang	Downregulation of MAD2 expression and its significance in chemodrug sensitization in nasopharyngeal carcinoma cells	1,041,000
7490/03M	Anatomy	Professor Y.C. Wong	ld-1 activation of NF-kB and its role in development of androgen-independent prostate cancer	2,070,000
7340/03M	Biochemistry	Dr. D.Y. Jin	Roles and regulation of peroxiredoxins: from yeast to human	1,153,000
7505/03M	Biochemistry	Dr. M.H. Sham	Hoxb3lacZ: a mutant mouse model for studying the roles of Hoxb3 in heart and thoracic body wall development	1,623,000
7513/03M	Biochemistry	Dr. Z.J. Zhou	Investigation of alternations in growth factor signaling and their contribution to defective intramembranous bone formation in mice lacking MT1-MMP	724,000
7523/03M	Biochemistry	Professor K.S.E. Cheah	Genetic manipulation and analyses of the regulation of chondrocyte hypertrophy	2,173,000
7484/03M	Biochemistry	Dr. I.H.N. Wong	Epigenetic and genetic deregulation in pediatric solid tumors	624,000
7509/03M	Biochemistry	Dr. Y.Q. Song	Genetic linkage analysis of early onset degenerative disc disease in Southern Chinese	786,000
7428/03M	Community Medicine	Professor T.H. Lam	A randomised controlled trial on smoking cessation and adherence intervention on patients with erectile dysfunction	924,000
7416/03M	Diagnostic Radiology	Dr. P.L. Khong	Diffusion tensor MR imaging (DTI) for the detection and quantification of treatment-induced white matter injury in childhood tumours	473,092
7327/03M	Institute of Molecular Biology	Dr. S.K. Chung	Molecular mechanisms of dementia associated with aging-related diseases, alzheimer's and multi-infarct	1,356,000
7334/03M	Institute of Molecular Biology	Dr. M.L. He	Transcriptional and functional regulation of TBX3 in retina formation	624,000
7395/03M	Institute of Molecular Biology	Dr. J.F. Chiu	Biochemical and proteomic analyses of arsenic carcinogenesis	1,086,000
7422/03M	Institute of Molecular Biology	Professor H.F. Kung	Molecular basis for the telomere dysfunction and anti-tumor activities of a C-terminal polypeptide of human telomerase reverse transcriptase	624,000

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7445/03M	Institute of Molecular Biology	Dr. M.C.M. Lin	Molecular basis of alcohol-induced birth defects, the critical role of Pax 6	1,203,000
7495/03M	Institute of Molecular Biology	Dr. J.Y.Q. Yang	The polyol pathway as a thrifty pathway promoting energy storage	1,387,800
7347/03M	Medicine	Dr. G.R. Li	lonic channels of mesenchymal stem cells from bone marrow and cell proliferation	624,000
7353/03M	Medicine	Dr. J.C.W. Mak	Effects of pseudomonas aeruginosa pyocyanin and 1-hydroxyphenazine on the regulation of glucocorticoid receptor activation and function in airway epithelial cells in vitro	524,000
7371/03M	Medicine	Dr. J.C.J.L. Zhang	Functional analysis of SM22beta by tissue- specific targeted deletion in mice	1,691,371
7374/03M	Medicine	Professor D.T.M. Chan	Internalization of anti-DNA antibodies from patients with lupus nephritis by human mesangial cells	624,000
7379/03M	Medicine	Professor V.N.Y. Chan	Localisation of the disease of disease- susceptibility gene for adolescent idiopathic scoliosis	1,623,000
7424/03M	Medicine	Professor K.N. Lai	Chemokine production and T cell interaction in chronic glomerulo-nephritides and interstitial nephritis: exploration of tubulo-glomerular communication	624,000
7426/03M	Medicine	Professor K.S.L. Lam	Clinical, genetic and functional studies of two novel fat-derived hormones	624,000
7439/03M	Medicine	Mr. J.C.K. Leung	The roles of electrical charge of IgA1 in the pathogenesis of IgA nephropathy	624,000
7443/03M	Medicine	Professor R.H.S. Liang	Adoptive transfer of herpes zoster cellular immunity to BMT patients by vaccination of seropositive donors with live-attenuated varicella zoster vaccine	624,000
7482/03M	Medicine	Dr. B.C.Y. Wong	Regulation of hTERT in relation to non-steroidal anti-inflammatory drugs in gastronintestinal carcinogenesis	1,256,000
7487/03M	Medicine	Dr. R.W.M. Wong	Non-cardiac chest pain in Chinese population	936,000
7493/03M	Medicine	Dr. H.H.X. Xia	Molecular and genetic mechanisms of helicobacter pylori-induced antralization in gastric carcinogenesis	1,572,000
7341/03M	Microbiology	Dr. R.Y.T. Kao	Application of chemical genetic approaches to dissect the molecular basis of virulence and dimorphism in Penicillium marneffei	1,337,000
7356/03M	Microbiology	Dr. L.L.M. Poon	Roles of segment-specific vRNA sequences of influenza A virus in viral replication, transcription and gene expression	1,112,000
7363/03M	Microbiology	Dr. S.S.Y. Wong	Screening antigenic proteins in penicillium marneffei for seroepidemiology and vaccination	624,000

7459/03M	Microbiology	Professor J.S.M. Peiris	Viral determinants underlying the increased secretion of pro-inflammatory cytokines in H5N1 infected human macrophages: a mechanism for the unusual severity of human H5N1 disease?	1,715,400
7408/03M	Obstetrics & Gynaecology	Professor P.C. Ho	Role of glycodelin in fertilization	624,000
7429/03M	Obstetrics & Gynaecology	Professor T.T.H. Lao	A study on the interrelationship among insulin-like growth factors, apoptosis and proliferation of trophoblast, and placental size throughout pregnancy, and their effects on infant outcome, in normal and diabetic pregnancies	836,000
7441/03M	Obstetrics & Gynaecology	Dr. T.W. Leung	The role of p73 in radiation response in cervical cancer	891,000
7323/03M	Paediatrics and Adolescent Med	Dr. S.Y. Chan	Functional studies of the role of NAP79 in the development of the heart	599,000
7394/03M	Paediatrics and Adolescent Med	Dr. A.K.S. Chiang	Prospective study of virologic and immunologic parameters of primary Epstein-Barr virus infection in Chinese children	936,000
7396/03M	Paediatrics and Adolescent Med	Dr. S.S.S. Chiu	A population based study of hospitalization disease burden for respiratory viral infections in children	624,000
7430/03M	Paediatrics and Adolescent Med	Dr. A.S.Y. Lau	A role for apoptogenic gene PKR in regulating TNF and cytokine expression in Avian influenza H5N1 infections	803,000
7410/03M	Pathology	Dr. F.P. Huang	Mechanisms for the induction and regulation of autoimmune responses by dendritic cells and T regulatory cells in systemic lupus erythematosus	624,000
7440/03M	Pathology	Dr. S.Y. Leung	Delineation of prognostic biomarkers in gastric cancer using cDNA microarray data, validation in independent dataset and their functional characterisation	991,000
7447/03M	Pathology	Dr. L.W. Lu	B cell apoptosis and its regulation in autoimmunity	1,167,000
7454/03M	Pathology	Dr. I.O.L. Ng	Deciphering dysregulation of mitotic checkpoint control in liver cancer	1,653,000
7486/03M	Pathology	Dr. M.P. Wong	Identification of candidate cancer genes in regions of frequent chromosomal aberration in non-small cell lung cancers	624,000
7397/03M	Pharmacology	Professor C.H. Cho	Delineation of the contributory role of EGF/polyamine/K+ channel in gastric mucosal repair	624,000
7524/03M	Pharmacology	Professor P.M.G. Vanhoutte	Endothelial dysfunction in diabetes: role of endothelium-derived contracting factor	624,000
7380/03M	Physiology	Professor Y.S.	Senstitive period for topographic spatial	1,473,000

		Chan	representation in the rat otolith system	
7488/03M	Physiology	Professor T.M. Wong	Ca2+ homeostasis and delayed cardioprotection of preconditioning with metabolic inhibition or kappa opioid receptor agonist: role of stress inducible heat shock protein and mitochondrial K ATP channel	624,000
7435/03M	Psychiatry	Dr. A.M. Lee	A prospective longitudinal study of high-risk behaviors among adolescents in Hong Kong: the effects of modernization and culture	624,000
7332/03M	Surgery	Dr. R.W. Ganster	Regulation of gene transcription by NF-kB and stats downstream of the ret receptor tyrosine kinase in hirschsprung disease and thyroid cancer	954,000
7392/03M	Surgery	Dr. S.T. Cheung	Characterization of the granulin/epithelin precursor gene in liver cancer	1,074,000
7444/03M	Surgery	Dr. C.L. Lin	Development of DNA and viral vector vaccines against Epstein-Barr virus-positive nasopharyngeal carcinoma	624,000
7501/03M	Surgery	Professor P.W. Yuen	The identification of proteomic tumor marker of upper aerodigestive tract squamous cell carcinoma	846,000
Total number of successful projects obtained by the Faculty of Medicine				55
Total amount of grants (HK\$)				53,093,663

(The award list of the Faculty of Medicine is downloaded from the Research Services website at <a href="http://www.hku.hk/local/rss/cergtemp/hku03fac.htm">http://www.hku.hk/local/rss/cergtemp/hku03fac.htm</a>.)