

THE UNIVERSITY OF HONG KONG
LI KA SHING FACULTY OF MEDICINE

2012 Health and Medical Research Fund (HMRF) Funded Projects

Principal Applicant	Department/School/Centre	Project Title	Awarded Amount (HK\$)
Dr VMY Yuen	Anaesthesiology	Comparison of oral chloral hydrate and intranasal dexmedetomidine for sedation in children undergoing computerised tomography in Queen Mary Hospital	792,840
Dr CWY Chan	Anatomy	Human embryonic stem cell-derived cardiomyocyte as a model to study the role of autophagy in cardiac inflammation.	981,360
Dr B Lin	Anatomy	Modulation of the PTEN/mTOR pathway enhances the survival of cone photoreceptors in retinal degeneration disorders.	990,360
Professor KF So	Anatomy	Minimizing neuropsychiatric side-effects of glucocorticoid therapy by antipsychotics and Chinese medicine	997,848
Dr CM Tsang	Anatomy	The protective role of Epstein-Barr virus infection towards starvation-induced apoptosis.	991,992
Professor D Jin	Biochemistry	Mechanism of inflammasome activation by SARS coronavirus 3a protein	1,000,000
Professor D Jin	Biochemistry	Regulatory roles of SIRT1 deacetylase in hepatitis B virus transcription	1,000,000
Dr. Y. Song	Biochemistry	Study of Population Specific Linkage Disequilibrium (LD) Patterns of Human Major Histocompatibility Complex (MHC) Region for Cancers, Infectious and Autoimmunity Diseases in Southern Chinese	956,800
Dr J Chen	Chinese Medicine	A randomized, controlled trial of Guolin-Qigong in improving body-mind health of Chinese women with breast cancer	786,016
Dr W Meng	Chinese Medicine	Clinical study of Chinese herbal compound Hualiu Recepte (HLR) for the treatment of uterus fibroids (UFs): Results from a randomized, double-blinded, two-dose, and crossover trial	994,600
Dr Z Wang	Chinese Medicine	Exploration of dietary compound isoliquiritigenin in chemosensitizing breast cancer stem cells by targeting aberrant β -catenin signaling	758,360

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Professor X Guan	Clinical Oncology	Characterization of the effect of Epstein-Barr Virus encoded BART microRNAs on enhancing tumor-initiating properties and potentially serve as biomarkers in Nasopharyngeal Carcinoma	919,300
Dr. H.L. Lung	Clinical Oncology	The serum amyloid A1 (SAA1) Polymorphisms as Risk Factors in Esophageal Squamous Cell Carcinoma	785,624
Professor M.L. Lung	Clinical Oncology	Elucidating the genetic basis for early-age onset nasopharyngeal carcinoma in Hong Kong	1,000,000
Professor TP Lam	Family Medicine & Primary Care	The barriers and facilitators to undertaking continuing professional education among the private non-specialist primary care physicians in Hong Kong	530,108
Dr.W. Wong	Family Medicine & Primary Care	Development of the brief version of the Chinese Quality of Life (ChQOL) Instrument	410,760
Dr. W.C.W. Wong	Family Medicine & Primary Care	To Determine Prevalence and Contextual Risk Factors of Sexually Transmitted Infections in Hong Kong	1,280,580
Professor PC Sham	Centre for Genomic Sciences	Mutational spectrum for dilated cardiomyopathy in Hong Kong	917,270
Professor D.T.M. Chan	Medicine	Gut Microbiota in the Pathogenesis of Lupus Nephritis	958,992
Professor S.L. Ho	Medicine	Pathophysiological study of Parkinson's disease associated with leucine-rich repeat kinase 2 (LRRK2) gene mutation	928,040
Dr. C.L.D. Lam	Medicine	Application of an EGFR array for the detection of Epidermal Growth Factor Receptor (EGFR) gene mutation in patients with Non-Small Cell Lung Cancer (NSCLC)	609,000
Professor W.K. Leung	Medicine	Detection of methylated Septin 9 DNA in blood for diagnosis, prognosis and surveillance of patients with colorectal cancer	979,032
Professor K.C.B. Tan	Medicine	Genetic Screening of Familial Hypercholesterolemia in Hong Kong	996,576
Dr DKH Wong	Medicine	Hepatitis B X protein primary structure and epigenetic regulation of HBV replication	967,880
Dr JFW Chan	Microbiology	Epidemiology, seroprevalence, and clinical manifestations of immunodeficiency due to autoantibody against interferon gamma in Hong Kong.	80,000
Dr KLA Cheung	Microbiology	Virus dissemination from HIV-1 latently infected CD34+ hematopoietic progenitors	980,120

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Dr. S.K.P. Lau	Microbiology	Molecular diversity and evolution of bat group C betacoronaviruses: implications on the origin of the novel human group C betacoronavirus	815,412
Dr. L. Liu	Microbiology	Molecular mechanisms of Nef mediated regulation of PD-1 expression during HIV/SIV infection	997,992
Dr KH Sze	Microbiology	Characterization of Staphylococcus aureus virulence factor EsxA and structure-based screening of EsxA's inhibitors for combating methicillin-resistant Staphylococcus aureus (MRSA)	838,184
Dr. K.K.W. To	Microbiology	Identification of innate immune defect predisposing to severe influenza in a Chinese population	494,892
Dr H Tse	Microbiology	Molecular characterization of antibiotic resistance in Staphylococcus lugdunensis isolates	335,520
Dr. H. Wang	Microbiology	Further optimization of live viral vector for HIV vaccine research.	947,120
Dr WHC Li	Nursing	Effectiveness of an Integrated Adventure-Based Training and Health Education Programme in Promoting the Adoption and Maintenance of Regular Physical Activity Among Childhood Cancer Survivors	726,383
Professor AFY Tiwari	Nursing	A Randomized, Wait-list Controlled Trial of a Qigong Intervention Program on Telomerase Activity and Psychological Stress in Abused Chinese Women	995,224
Dr. K.W. Cheung	Obstetrics & Gynaecology	A multi-center prospective study on the evaluation of paternal, maternal and obstetric factors leading to the hepatitis B immunization failure in Hong Kong	973,746
Professor JSM Lai	Ophthalmology	Randomized control trial on the neuroprotective effects of oral Wolfberry supplement in the treatment of normal tension glaucoma	937,976
Professor DSH Wong	Ophthalmology	Diabetic retinopathy screening for specialist care	683,960
Dr YHI Wong	Ophthalmology	To improve the current screening programme for diabetic macular oedema	705,644
Dr. F.K.L. Leung	Orthopaedics & Traumatology	The effectiveness of a multidisciplinary approach to geriatric hip fractures on improving clinical outcomes and cost of care	72,475
Professor Y.F. Cheung	Paediatrics & Adolescent Med	Circulating MicroRNAs and Myocardial Damage in Paediatric Cancer Patients Receiving Anthracycline Therapy	832,754

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Dr CB Chow	Paediatrics & Adolescent Med	Measuring the burden of fatal and nonfatal injury in Hong Kong	885,172
Dr CB Li	Paediatric & Adolescent Medicine	The role of c-Myc in anti-mycobacterial responses: from bacterial killing to T cell activation	999,880
Dr. W. Tu	Paediatrics & Adolescent Med	Antiviral Activity of Human $\gamma\delta$ -T cells against Enterovirus 71	1,000,000
Dr W Yang	Paediatrics & Adolescent Med	Molecular diagnosis for severe combined immunodeficiencies (SCID) using whole exome sequencing	980,868
Dr KK Chan	Pathology	iASPP and autophagy - novel molecular targets for ovarian clear cell carcinoma.	996,568
Professor ANY Cheung	Pathology	p53 related proteins and gestational trophoblastic disease	998,360
Professor ANY Cheung	Pathology	Placental biology of Down Syndrome in relation to increased gene dosage	998,544
Dr. Y.T. Chiu	Pathology	Analysis of hepatitis B virus genomic integration and characterization of its role in hepatocarcinogenesis	1,000,000
Dr. K.W. Lee	Pathology	Hepatitis B virus promotes hepatocarcinogenesis and stemness through Nanog regulation	804,280
Professor L. Lu	Pathology	B-1 cell response and its regulation during influenza virus infection	980,000
Professor J.M. Nicholls	Pathology	Molecular determinants of H9N2 virus haemagglutinin and neuraminidase affecting virus tropism for the human and swine respiratory tract	754,568
Dr CCL Wong	Pathology	Hepatitis B virus infection promotes hepatocellular carcinoma through HIF-1 α /LOXL2 pathway	939,280
Dr. G.W. Wong	Pathology	Cellular functions and potential clinical application of miR-143 in cervical cancer	991,568
Dr MP Wong	Pathology	Identification of cancer metastasis and drug resistance pathways through comparison of primary and metastatic lung adenocarcinomas by next generation sequencing analysis	1,000,000
Dr. J.W.P. Yam	Pathology	Role of caveolin-1 in hepatitis B virus-induced hepatocarcinogenesis	977,452
Dr PCL Kwok	Pharmacology & Pharmacy	Inhalable macromolecule dry powder for asthma treatment in children	80,000
Dr. J.K.W. Lam	Pharmacology & Pharmacy	Intranasal Delivery of DNA Vaccine using Oligochitosan/PLGA Nanoparticles	322,000

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Dr. S.W.S. Leung	Pharmacology & Pharmacy	Therapeutic potential of herbal flavonoids in the management of chronic obstructive pulmonary disease	938,360
Professor ICK Wong	Pharmacology & Pharmacy	Mother's preferences and willingness to pay for human papillomavirus vaccination for their daughters: a discrete choice experiment in Hong Kong	378,040
Dr D Ye	Pharmacology & Pharmacy	Lipocalin-2 in acute and chronic liver diseases: focusing on neutrophil-mediated innate immune responses	765,624
Dr KW Chan	Psychiatry	Treatment resistant following the first-episode schizophrenia-spectrum disorder: a retrospective case-control study	799,952
Dr KW Chan	Psychiatry	Psychotic-like experiences (PLEs) in the general population of Hong Kong: a two-year prospective follow up study	877,352
Dr WC Chan	Psychiatry	A randomised controlled trial of home-based exercise intervention for caregivers of persons with dementia	998,160
Professor EYH Chen	Psychiatry	Five-year follow-up of a randomized controlled trial of the duration of early intervention for psychosis: 2 years vs. 3 years	518,400
Professor EYH Chen	Psychiatry	Predicting treatment response in first-episode psychosis	999,680
Dr M Li	Psychiatry	Statistical method to identify risk genes of complex diseases based on functional gene sets and networks, with a genetic data mining application to hepatocellular carcinoma	999,990
Dr SM Tang	Psychiatry	A transethnic meta-analysis of genome-wide association studies for Hirschsprung disease	78,800
Dr. M.C.W. Chan	Public Health	Tropism of the novel human betacoronavirus lineage C virus in human ex vivo and in vitro cultures, as an assessment of its potential transmissibility and pathogenesis in humans	999,860
Dr. W.Y. Chan	Public Health	Influenza B viruses in swine: Virus tropism in swine respiratory organ explant cultures and sero-epidemiology.	999,630
Dr BJ Cowling	Public Health	Influenza virus epidemiology in households of school-age children, 2013-14	999,000
Dr BJ Cowling	Public Health	A community-based longitudinal seroepidemiological study of influenza virus infections in Hong Kong in 2013-14	999,804
Dr BJ Cowling	Public Health	Efficacy of Face Masks to Prevent Respiratory Virus Transmission	1,000,000
Dr. S.A. Doak	Public Health	Understanding vaccine induced T cell protection from influenza viruses	997,164

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Professor R Fielding	Public Health	A Longitudinal Study of Chinese Parental Decision Making on HPV Vaccination for Adolescent Girls	927,546
Dr MK Kwok	Public Health	Unravelling secular trends of blood pressure in children and adolescents in Hong Kong: information for action	614,350
Dr. W.W.T. Lam	Public Health	Comparison the meanings of living with advanced breast cancer between women resilient to distress and women with persistent distress: A qualitative study	320,252
Dr EHY Lau	Public Health	Symptom-specific health-seeking behavior of common infectious diseases in Hong Kong and implications in disease control and surveillance	921,680
Dr Q Liao	Public Health	Parents' risk perceptions and protective responses regarding varicella, scarlet fever and hand, foot and mouth disease in Hong Kong: a multi-group longitudinal survey	598,348
Professor JSM Peiris	Public Health	Host responses that correlate with respiratory droplet transmission of swine-origin influenza viruses in ferrets	970,496
Dr. C.M. Wong	Public Health	Impact of increased influenza and pneumococcal vaccine coverage on the burden of influenza in the elderly: a comparison between Hong Kong and Brisbane.	760,060
Dr P Wu	Public Health	Impact and severity profiles of respiratory viruses in children in Hong Kong	771,396
Dr YW Chan	Surgery	The use of Epstein-Barr virus (EBV) encoded microRNA in supplement with EBV DNA as serological marker in screening undifferentiated nasopharyngeal carcinoma patients	979,443
Dr W.C. Cheng	Surgery	Role of adducin3 in the pathogenesis of biliary atresia and in the development of the hepatobiliary system	68,260
Dr PFY Cheung	Surgery	The role of NKG2D-MICA on NK cell immunosurveillance of hepatocellular carcinoma	80,000
Dr ST Cheung	Surgery	The roles of drug transporters on chemo-resistance and stem-like cell properties in liver cancer	938,360
Dr. M.M. Garcia-Barcelo	Surgery	Uncovering the genetic lesions underlying the most severe form of Hirschsprung (HSCR) disease by whole genome sequencing (WGS): a pilot study in 10 family trios	1,000,000

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Dr A Kwong	Surgery	Screening of founder and recurrent BRCA mutations in Hong Kong and US Chinese populations	828,360
Dr. V.C.H. Lui	Surgery	Functional genetics study to unravel the genetic background of a complex neurodevelopmental disorder namely Hirschsprung Disease	900,775
Dr K Man	Surgery	The role of alternative-activated macrophages (M2 macrophages) on tumor growth and metastasis in hepatocellular carcinoma	983,500
Dr K Man	Surgery	Role of human cytomegalovirus-triggered immune response in graft injury after living donor liver transplantation	999,860
Dr. E.S.W. Ngan	Surgery	Potential use of patient specific induced-pluripotent stem cell (iPSC) to define genetic lesions contributing to the disease phenotypes of syndromic Hirschsprung (HSCR)	989,760
Professor P.K.H. Tam	Surgery	Whole exome sequencing to uncover genetics variants underlying Congenital Cystic Adenomatoid Malformations	881,425
Dr X Wang	Surgery	Potential anti-tumor and anti-metastasis efficacy of novel Notch inhibitor (PF-03084014) in liver cancer models	850,016
Dr. C.W. Yip	Surgery	Interaction of granulin-epithelin precursor with heparan sulfate on activation of signaling pathways in hepatocellular carcinoma	80,000