

Appendix N: Continued*Biology & Medicine*

	Project No.	Project Title	Principal Investigator	Awarded (HK\$)	Status
Subject Area: Biological Sciences					
423	CityU 1107/02M	Growth Responses of Infaunal Bivalves to Water Flow and Seston Concentration	Dr Paul Kam Shing Shin	683,413	On-going
424	CityU 1110/02M	Impact of Spent Lubricating Oil Pollution on Mangrove Ecosystems: Plants and Sediment Microbes	Prof Nora Fung Yee Tam	816,000	On-going
425	CityU 1111/02M	Comparative Studies of Δ^3 - Δ^2 - Enoyl-CoA Isomerase and $\Delta^{3,5}$ - $\Delta^{2,4}$ - Dienoyl-CoA Isomerase	Dr Ding Li	816,000	On-going
426	CityU 1112/02M	Assessment of Risk to Ardeids in Hong Kong Due to Organochlorine and Organotin Contaminants with Special Reference to the Mai Po/ Inner Deep Bay Ramsar Site	Prof Paul Kwan Sing Lam	975,200	On-going
427	CityU 1164/02M	The Function of ziro1b Gene in Zebrafish Embryonic Neurogenesis	Dr Shuk Han Cheng	876,000	On-going
428	CityU 1244/02M	Similarities in the Profiles of Gene Expression between Hypoxia and Starvation	Prof David John Randall	1,014,273	On-going
429	HKBU 2052/02M	Development of Mitochondria-based Photosensitizers for Cancer Therapy	Dr Nai Ki Mak	816,000	On-going
430	HKBU 2062/02M	Organic Waste Amendment for Remediation of Cu-contaminated Soil: The Role of Dissolved Organic Matter in the Environmental Fate of Cu and Its Phytotoxicity	Dr Jonathan W C Wong	816,000	On-going
431	CUHK 4254/02M	Structural Basis of Thermostability of Proteins - Protein Engineering of a Thermophilic Protein from a Hyperthermophilic Archaea <i>Thermococcus celer</i>	Prof Kam Bo Wong	1,394,000	On-going
432	CUHK 4255/02M	A Mechanistic Study of the Immunopotentiating and Antitumor Effects of Native and Chemically Modified Nonstarch Polysaccharides [(1 \rightarrow 3)- β -D-glucans] from Mushroom <i>Sclerotia</i>	Prof Peter Chi Keung Cheung	1,036,000	On-going
433	CUHK 4258/02M	Epidermal Growth Factor (EGF) in the Ovary of Zebrafish - How is it Related to the Ovarian Activin System in Controlling Oocyte Development?	Prof Wei Ge	876,000	On-going
434	CUHK 4260/02M	Molecular Characterization of Plant Prevacuolar Compartments	Prof Liwen Jiang	1,387,580	On-going
435	CUHK 4261/02M	In Vitro and In Vivo Anticancer Studies of Novel Polyunsaturated Fatty Acids (DHA, EPA) Purified and Characterized from Several Enriched Microalgae	Prof Vincent E C Ooi	876,000	On-going
436	CUHK 4263/02M	Isolation and Characterization of Flavonoid Antioxidants in <i>Vigna sinensis</i> Seeds	Prof Yum Shing Wong	780,000	On-going
437	CUHK 4264/02M	Growth Hormone and Insulin-like Growth Factor-I as Anti-apoptotic Factors via Modulated HSP70 Expression in Seabream	Prof Norman Ying Shiu Woo	1,354,000	On-going
438	CUHK 4267/02M	Growth Hormone Secretagogue Receptors: Cell Signalling and Receptor Oligomerization	Prof Helen Wise	1,444,000	On-going
439	CUHK 4268/02M	The Role of Organic Anion Transporters (OAT) in the Accumulation of Antifertility Drugs by the Rat Epididymis	Prof Patrick Yee Ding Wong	876,000	On-going
440	CUHK 4269/02M	Identification and Development of Xanthine Oxidase Inhibitors from Chinese Medicinal Natural Products with Therapeutic Potentials	Prof Christopher Hon Ki Cheng	816,000	On-going
441	CUHK 4273/02M	Gene Regulation in the Signal Transduction Pathways of Broad-Spectrum Bacterial Blight Resistance Loci in Rice	Prof Hon Ming Lam	876,000	On-going

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442	CUHK 4274/02M	Identification and Characterization of Apolipoprotein Polymorphism-Induced Variation of Cell Function Involved in Atherosclerosis	Prof Yuan Yuan Ho	816,000	On-going
443	PolyU 5250/02M	Characterization of a Leishmania Intracellular ATP-Binding Cassette (ABC) Transporter	Dr Larry Ming Cheung Chow	876,000	On-going
444	PolyU 5257/02M	Physicochemical Characterization of Microbial Polyhydroxyalkanoates (PHA) Synthesized from Industrial Food Wastes	Dr Peter Hoifu Yu	852,800	On-going
445	HKUST 6083/02M	Design of peptides with special secondary structures using unnatural amino acids	Prof Yundong Wu	1,074,000	On-going
446	HKUST 6086/02M	The "supernova effect": Nano-encapsulated fluorophore microcrystals for mega-amplified bioaffinity assays	Prof Reinhard Renneberg	1,266,000	On-going
447	HKUST 6096/02M	The HcC family of chromosomal proteins in dinoflagellates	Prof Joseph T Y Wong	816,000	On-going
448	HKUST 6097/02M	Biological controls on trace metal bioavailability from contrasting marine environments	Prof Wenxiong Wang	2,324,000	On-going
449	HKUST 6098/02M	The role of P2Y nucleotide receptors in the formation and maintenance of vertebrate neuromuscular junctions	Prof Karl W K Tsim	803,000	On-going
450	HKUST 6099/02M	Genetics and functional genomics of abscisic acid-regulated gene expression in arabidopsis	Dr Christopher D Rock	876,000	Terminated
451	HKUST 6100/02M	Identification of bacterial metabolites as larval settlement inducers of biofouling organisms and illustration of qualitative structure-activity relationship: Probing the action mechanisms	Prof Peiyuan Qian	816,000	On-going
452	HKUST 6101/02M	The role of cadherin junctional complexes in the formation of acetylcholine receptor clusters	Prof Benjamin H Peng	954,000	On-going
453	HKUST 6102/02M	Investigation of the role of tyrosine152 in 1-aminocyclopropane-1-carboxylate synthase catalysis	Prof Ning Li	876,000	On-going
454	HKUST 6103/02M	Molecular genetic analysis of ram genes orchestrating sensory ray morphogenesis in <i>C. elegans</i>	Prof King Lau Chow	876,000	On-going
455	HKUST 6104/02M	Calcium signaling in programmed cell death	Prof Donald C Chang	876,000	On-going
456	HKUST 6105/02M	Investigations into the molecular basis of the regulation of intracellular vesicle mediated transport	Prof David K Banfield	1,677,500	On-going
457	HKUST 6120/02M	Novel anti-Alzheimer's dimers: Molecular elucidation of memory-enhancing and neuroprotective activities and structural modification	Prof Yifan Han	816,000	On-going
458	HKUST 6121/02M	Functional characterization of D-prohibitin, an Akt-interacting transcriptional co-repressor during muscle differentiation	Dr Zhenguo Wu	966,000	On-going
459	HKUST 6122/02M	Structural basis and switch mechanism for Axin dual function in the Wnt and JNK pathways	Dr Shengcai Lin	1,416,000	On-going
460	HKUST 6124/02M	NMR structure-function studies of the CNTF receptor complex	Prof Guang Zhu	876,000	On-going
461	HKUST 6125/02M	Structural basis for novel functions of tandem-arranged domains in multi-modular neuronal organization proteins	Prof Mingjie Zhang	2,352,000	On-going
462	HKUST 6126/02M	Systematic mutational studies combined with computer-assisted modeling in elucidation of inhibitory ligand-gated ion-channel receptor structures	Prof Hong Xue	876,000	On-going

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463	HKUST 6129/02M	Characterization of the functions and regulation of the cell cycle checkpoint regulators CHK1 and CHK2	Prof Randy Y C Poon	1,786,000	On-going
464	HKUST 6130/02M	Investigation on molecular mechanism of schisandrin B induced hepato- and cardioprotection: Correlation between induction of heat shock proteins and enhancement of antioxidant status in vitro and in vivo	Prof Robert K M Ko	733,000	On-going
465	HKUST 6131/02M	Elucidation of the functional roles of Eph receptor signaling at the neuromuscular synapse	Prof Nancy Y Y Ip	1,923,250	On-going
466	HKBU 6175/02M	Transcriptional regulation and physiological function of the newly cloned rat frizzled-related protein (rFrp) gene	Prof Wendy W L Hsiao	876,000	On-going
467	HKUST 6214/02M	An exploration of the furrow positioning signal during cytokinesis in zebrafish embryos	Prof Andrew L Miller	1,182,609	On-going
468	HKU 7213/02M	The role of matrix remodeling in endochondral bone formation	Dr Danny Chan	1,832,000	On-going
469	HKU 7214/02M	Vitellogenesis in the decapod crustacean: analysis of the shrimp vitellogenin gene and the hormonal control of shrimp vitellogenesis	Dr Siu Ming Chan	876,000	On-going
470	HKU 7218/02M	Regulation of alpha-fetoprotein gene expression in differentiating and cancer cells	Dr Jen Fu Chiu	2,018,512	On-going
471	HKU 7219/02M	Secretin as a neuropeptide	Dr Billy Kwok Chong Chow	1,786,000	On-going
472	HKU 7220/02M	Characterization of endothelin-1 gene manipulated mice for ischemic stroke, a leading cause of death and disability	Dr Sookja Kim Chung	2,090,000	On-going
473	HKU 7221/02M	Subcellular localization and mutational analysis of Brassica juncea HMGS	Dr Mee Len Chye	876,000	On-going
474	HKU 7223/02M	Molecular and cellular mechanisms underlying anatomical and physiological adaptation of the carotid body in chronic hypoxia: role of HIF-1 and its target genes	Dr Man Lung Fung	876,000	On-going
475	HKU 7225/02M	Genetic determinants of influenza virus for inter-species transmission: studies using a reverse genetic approach	Dr Yi Guan	1,747,000	On-going
476	HKU 7227/02M	Molecular dynamics of iron transport	Dr Qing Yu He	1,180,340	On-going
477	HKU 7230/02M	Molecular evolution of genes for phylogenetic analysis of the class Sordariomycetes (Mycota)	Dr Kevin David Hyde	1,279,000	On-going
478	HKU 7232/02M	Prevalence of two protozoan pathogens, Giardia and Cryptosporidium, in the water supplies of Hong Kong	Prof Ronald Chun Chung Ko	816,000	On-going
479	HKU 7235/02M	The C-terminus of human glucose-6-phosphate dehydrogenase (h-G6PD): a structural and/or regulatory domain?	Dr Veronica Min Sien Lam	876,000	On-going
480	HKU 7242/02M	The role of DC-SIGN in the regulation of dendritic cell function and T cell responses: from HIV immunopathology to the induction of peripheral T cell tolerance	Dr Chen Lung Lin	1,224,000	On-going
481	HKU 7243/02M	Characterization of a novel cell cycle related kinase in glioblastoma	Dr Marie Chia Mi Lin	1,224,000	On-going
482	HKU 7244/02M	Prevention and treatment of root surface dental caries in Hong Kong elderly	Dr Edward Chin Man Lo	622,572	On-going
483	HKU 7245/02M	Engrailed-Hoxb5 chimaeric transcription repressor: a novel approach to investigate Hoxb5 function in enteric neurons and gut development in transgenic mice	Dr Vincent Chi Hang Lui	876,000	On-going

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484	HKU 7249/02M	Mechanisms of enhanced monocyte binding to vascular endothelium in hyperhomocysteinemia	Dr Karmin O	1,216,575	On-going
485	HKU 7250/02M	Lipopolysaccharide (LPS) potentiates phagocyte clearance of neutrophils undergoing apoptosis	Dr Yi Ren	876,000	On-going
486	HKU 7256/02M	Regulation of growth hormone synthesis in fish: mechanisms of action of the novel hypophysiotropic factor pituitary adenylate cyclase-activating polypeptide	Dr Anderson On Lam Wong	1,434,000	On-going
487	HKU 7257/02M	Kappa-opioid receptor mediated cellular stress response: the role of Inositol 1,4,5-trisphosphate and diacylglycerol	Dr Nai Sum Wong	876,000	On-going
488	HKU 7261/02M	Investigating the role of a secreted protein sPIN-1 in the regulation of pancreatic beta-cell growth and differentiation	Dr Kwok Ming Yao	816,000	On-going
489	HKU 7385/02M	The regulation and role of Sox2 in the circling, deaf and yellow mouse mutants Yellow submarine (Ysb) and Light coat and circling (Lcc)	Prof Kathryn Song Eng Cheah	1,786,000	On-going
Subject Area Total				75,314,624	
Subject Area: Medicine, Dentistry & Health					
490	CUHK 4054/02M	A Randomized Controlled Trial of Auditory Evoked Potential Monitoring to Improve Recovery from General Anaesthesia	Prof Matthew Tak Vai Chan	737,960	On-going
491	CUHK 4056/02M	Safety of Traditional Chinese Medicine in Patients Undergoing Anaesthesia	Prof Tony Gin	638,500	On-going
492	CUHK 4060/02M	The Effects of Maternal Oxygen Therapy during Emergency Caesarean Section	Prof Kim Sun Khaw	468,000	On-going
493	CUHK 4066/02M	The Investigation of Multiple Mutations in Hepatocellular Carcinoma	Prof Choong Tsek Liew	876,000	On-going
494	CUHK 4067/02M	Molecular and Functional Characterization of a Novel Tumor Suppressor Gene, TSLC1, in Nasopharyngeal Carcinoma	Dr Kwok Wai Lo	800,000	On-going
495	CUHK 4068/02M	Study of the Multi-step Molecular Pathogenesis of Multiple Myeloma (MM) in Chinese : Identification of Early and Sequential Molecular Targets in MM Transformation and Progression and Mapping of MM-related tumor	Prof Margaret Heung Ling Ng	885,000	On-going
496	CUHK 4069/02M	Studies on the Possible Association of ApoE and Receptor Genes with Vascular Dementia in Hong Kong Chinese	Prof Ho Keung Ng	816,000	On-going
497	CUHK 4071/02M	Molecular Alterations in Normal Looking Nasopharyngeal Epithelia - Implication in the Molecular Carcinogenesis of Nasopharyngeal Cancer (NPC)	Prof Ka Fai To	876,000	On-going
498	CUHK 4084/02M	A Comprehensive Survey of Mutations in the Wilson Disease Gene (ATP7B) in Hong Kong Chinese : Frequencies, Haplotypes and Genotype-Phenotype Correlations	Prof Ching Wan Lam	300,000	On-going
499	CUHK 4086/02M	Molecular Characterization of Circulating Epstein-Barr Virus DNA in Nasopharyngeal Carcinoma Patients	Prof Dennis Yuk Ming Lo	683,000	On-going
500	CUHK 4090/02M	Functional Studies of a Putative Peroxisomal Regulating Gene, BRE - Its Roles in Cellular Survival, Immune System and Tumorigenicity	Prof Yiu Loon Chui	1,051,800	On-going
501	CUHK 4092/02M	Crystallisation of a Carrier-specific Antibody and Its Reconstruction as a Bona Fide Antibody Fragment	Prof Pak Leong Lim	876,000	On-going
502	CUHK 4093/02M	Studies on Markers of Tumor Hypoxia in Nasopharyngeal Carcinoma	Prof Anthony Tak Cheung Chan	1,246,000	On-going