

Appendix M: Competitive Earmarked Research Grant Projects Supported by RGC in 2000-2001

Engineering

	Project No.	Project Title	Principal Investigator	Awarded (HK\$)	Status
Subject Area: Civil Engineering, Surveying, Building & Construction					
1	CityU 1018/00E	Optimization Modeling of Public Housing Construction Site Facilities Layout Using Weighted Factor Analysis and Genetic Algorithm	Dr Chi Ming Tam	463,817	On-going
2	CityU 1026/00E	A Study of Spalling of Reinforced Concrete Structures under Fire Situations	Dr Richard Kwok Kit Yuen	480,817	On-going
3	CityU 1038/00E	A Cash Flow Decision-support System for the Hong Kong Construction Industry	Dr Ka Chi Lam	556,817	On-going
4	CityU 1047/00E	Fractal Elements for Life Prediction of Structures	Prof Andrew Yee Tak Leung	457,817	On-going
5	CityU 1048/00E	An Investigation of Solar Heat and Daylighting for Cooling-dominated Office Buildings in Hong Kong	Dr Joseph C Lam	571,817	On-going
6	CityU 1052/00E	The Use of Possibility Measure for the Prediction of Wayfinding Patterns of Evacuees under Fire Situations	Dr Siu Ming Lo	457,817	On-going
7	CityU 1131/00E	Full Scale Measurements of Wind Effects on Three High-rise Structures and Comparison with Wind Tunnel Test Results	Dr Qiusheng Li	601,817	On-going
8	CityU 1141/00E	Residual Strength, Assessment, Damage Mechanisms and Durability of High Performance Concrete Incorporating Pulverized Fuel Ash after Exposure to High Temperature	Dr Ramapillai V Balendran	495,060	On-going
9	PolyU 5001/00E	A Novel Process for Removing and Recovering Metal Contaminants Using Integrated Biosorption and Electrodeposition	Dr Wai Hung Thomas Lo	517,817	On-going
10	PolyU 5007/00E	Dynamic Impact of Land Supply on Population Mobility with Evidence from Hong Kong	Dr Chi Man Eddie Hui	447,817	On-going
11	PolyU 5016/00E	The Development of a Web-based Digital Neural System for Construction Project Management	Dr Kam Din Wong	462,817	On-going
12	PolyU 5018/00E	Optimum Condensing Temperature at Part-load Operation of Air-cooled Chillers for Energy Efficiency	Dr Kwok Tai Chan	437,817	On-going
13	PolyU 5020/00E	Development of a Multi-criteria Decision Making Model for Sustainable Building Development for Hong Kong	Dr Chi Kwan Chau	421,600	On-going
14	PolyU 5024/00E	Development of Harmonic Impedance Database of Low-Voltage Power Cables	Dr Ya Ping Du	487,817	On-going
15	PolyU 5028/00E	Optimized Air Supply Temperature and Velocity with Radiant Cooling and Desiccant Humidity Control a/c Systems	Dr Jian Lei Niu	561,817	On-going
16	PolyU 5030/00E	An Investigation on the Self-noise Generation of the Dissipative Silencer and its Control	Dr Shiu Keung Tang	985,817	On-going
17	PolyU 5031/00E	Fault Validation and Fault Tolerant Control of Building Automation Systems	Dr Sheng Wei Wang	710,817	On-going
18	PolyU 5032/00E	Experimental Scale Studies in Smoke Control Strategy in Large Linear Atria in HKSAR	Dr Ling Tim Wong	526,817	On-going
19	PolyU 5033/00E	Energy Performance Evaluation of Advanced-window Frame Systems	Dr Hong Xing Yang	457,817	On-going
20	PolyU 5034/00E	Method and Data for Modelling Humidity in Residential Buildings in Hong Kong	Prof Wai Hung Francis Yik	537,817	On-going
21	PolyU 5037/00E	Implications of Volatile Organic Emissions from Pearl River Delta Cities of South China Including Hong Kong	Dr Lo Yin Chan	1,205,817	On-going

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	Project No.	Project Title	Principal Investigator	Awarded (HK\$)	Status
22	PolyU 5045/00E	Dynamic Analysis and Semi-active Control of Bridge Stay Cables excited by Support Motions	Prof Jan Ming Ko	467,817	On-going
23	PolyU 5046/00E	The Reallocation of Road Space to Different Modes of Transport	Prof William Hing Keung Lam	795,817	On-going
24	PolyU 5048/00E	Predicting the Load Carrying Capacity of Press-braked Cold-formed Steel Sections with Initial Imperfection by the Finite Strip Method	Dr Eddie Siu Shu Lam	637,817	On-going
25	PolyU 5051/00E	Correlation of Extreme Waves and Surges Using a Dynamically Coupled Third-generation Wave Model and 3D Flow Model	Dr Chi Wai Li	457,817	On-going
26	PolyU 5055/00E	Experimental Analysis of Dynamic Stability of Curved Plates	Dr Chung Fai Ng	437,817	On-going
27	PolyU 5056/00E	Stabilisation/solidification of Hazardous Wastes Using Flue Gas Desulphurisation (FGD) Sludge Activated Low Grade Pulverised Fuel Ash	Prof Chi Sun Poon	497,817	On-going
28	PolyU 5059/00E	Field Observation and Model Analysis of Photochemical Ozone Pollution in Western Hong Kong	Dr Tao Wang	870,817	On-going
29	PolyU 5064/00E	Development and Application of a Three-dimensional Limit Method for Stability Analysis of Slopes in Hong Kong	Dr Jian Hua Yin	437,817	On-going
30	PolyU 5065/00E	Centimetre Level Vertical Positioning for Bathymetric Surveys Using Carrier Phase GPS	Dr Jason Chih Hung Chao	447,817	Terminated
31	PolyU 5066/00E	Estimation of Real-time Precipitable Water Vapor (PWV) in the Hong Kong Region Based on GPS Measurements	Prof Yong Qi Chen	447,817	On-going
32	PolyU 5067/00E	Geodetic Study of Sea Level Change and Land Subsidence and their Environmental Impacts in HK and Southeastern Coastal Areas of China	Dr Xiaoli Ding	479,817	On-going
33	PolyU 5068/00E	A Prototype Dynamic Marine GIS	Prof Christopher Gold	655,817	On-going
34	PolyU 5070/00E	Enhanced InSAR Technology for Monitoring Earth Surface Deformation	Dr Zhi Lin Li	653,817	On-going
35	PolyU 5073/00E	Investigation of the Current Crustal Deformation in North China using Global Positioning System Measurement	Mr Conrad Hong Wai Tang	745,817	On-going
36	HKUST 6083/00E	An Integrated Planning Methodology For Win-Win Public Transit Services	Dr Hong Kam Lo	670,817	On-going
37	HKUST 6084/00E	Centrifuge Modeling Of Pile-sand Systems Under Multi-directional Earthquake Loading	Dr Xiang Song Li	835,817	On-going
38	HKUST 6086/00E	Laboratory- And Full- Scale Study Of Permeable Reactive Barriers For Removal Of Chlorinated Solvents In Groundwater	Dr Irene M C Lo	843,817	On-going
38	HKUST 6087/00E	Investigation Of Slope Instability In Unsaturated Expansive Soils	Dr Charles W W Ng	695,817	On-going
40	HKUST 6091/00E	Advanced Composite Reinforced Concrete	Dr Zongjin Li	572,817	On-going
41	HKUST 6092/00E	Investigation Of Flow Behavior In Pipeline Hydraulic Transients	Dr Mohamed S B H Ghidaoui	547,817	On-going
42	HKUST 6094/00E	Modeling And Evaluating Joint Implementation Of Road Pricing And Route Guidance Systems	Dr Hai Yang	635,817	On-going
43	HKUST 6225/00E	Fibre Reinforced Shotcrete For Slope Protection	Dr Christopher K Y Leung	944,817	On-going
44	HKUST 6228/00E	Prediction Of Joint Behaviour In Segmental Hollow Box Girder Bridges	Dr Neil C Mickleborough	487,817	On-going

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	Project No.	Project Title	Principal Investigator	Awarded (HK\$)	Status
45	HKUST 6239/00E	Wind-induced Motion Of Tall Flexible Buildings And Its Effects On Occupant Comfort And Mental Efficiency	Prof Chung Sau Kwok	646,817	On-going
46	HKUST 6245/00E	On Integrated Computer-aided-design Of Buildings In A Collaborative Design Environment	Prof Paul T Y Chang	833,817	On-going
47	HKUST 6249/00E	Structural Optimization For Seismic Design Of Reinforced Concrete Buildings	Dr Chun Man Chan	457,817	On-going
48	HKUST 6252/00E	Calibration Of Landslide Probability From Observed Performance	Prof Wilson H Tang	457,817	On-going
49	HKUST 6253/00E	A Statistical Methodology For Structural Model Updating And Health Monitoring	Dr Lambros Katafygiotis	507,817	On-going
50	HKU 7002/00E	Development of code-based seismic spectra and risk assessment procedures for Hong Kong	Prof Adrian Mark Chandler	671,817	On-going
51	HKU 7004/00E	Biofilm corrosion of metals in polluted seawater	Prof Herbert Han Ping Fang	1,001,817	On-going
52	HKU 7005/00E	Experimental and theoretical studies of reinforced concrete coupling beams in shear wall structures	Dr Albert Kwok Hung Kwan	487,817	On-going
53	HKU 7006/00E	Mixing of a round buoyant jet in a counterflow	Dr Kit Ming Lam	537,817	On-going
54	HKU 7008/00E	Transformation of landslips into debris flows	Prof Chack Fan Lee	930,817	On-going
55	HKU 7012/00E	Rational detailing for beam-column joints of reinforced concrete frames in Hong Kong	Dr Hoat Joen Pam	517,817	On-going
56	HKU 7014/00E	Interaction of multiple branched cracks	Dr Kai Leung Su	419,490	On-going
57	HKU 7015/00E	A multi-commodity discrete/continuous approach to traffic equilibrium problems	Dr Sze Chun Wong	457,817	On-going
58	HKU 7213/00E	Technological progress and productive efficiency of construction firms in Hong Kong	Prof Kwong Wing Chau	467,817	On-going
59	HKU 7222/00E	Benchmarking Hong Kong (and PRC) strategic planning competitiveness in the construction industry	Dr Stephen Michael Rowlinson	437,817	On-going
Subject Area Total				34,952,902	

Subject Area: Computing Science, Information Technology & Applied Mathematics					
60	CityU 1072/00E	Specification and Verification for Component-based Software and Workflow Systems (a Petri-net-based Approach)	Prof To Yat Cheung	437,817	On-going
61	CityU 1074/00E	Efficient Searching of Unknown Directed Graphs	Dr Xiaotie Deng	437,817	On-going
62	CityU 1076/00E	Adaptive QoS Routing Protocols for Anycast & Multicast Messages	Dr Weijia Jia	623,817	On-going
63	CityU 1078/00E	Efficient Concurrency Control Protocols for Transactions in Mobile Real-time Database Systems	Dr Kam Yiu Lam	437,817	On-going
64	CityU 1080/00E	A Multi-resolution Caching Framework for Web Objects Using User Profiles for Importance Estimation	Dr Rynson Wing Hung Lau	673,817	On-going
65	CityU 1083/00E	Fault-based Software Testing Strategies for Logical Expressions	Dr Yuen Tak Yu	437,817	On-going
66	CityU 1087/00E	Sequence Alignment, k-median Substring, and RNA Structure Similarity	Dr Lusheng Wang	623,817	On-going
67	CityU 1109/00E	Intelligent Internet Negotiation and Trading with Mobile Software Agents	Dr Hon Wai Chun	467,817	On-going

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	Project No.	Project Title	Principal Investigator	Awarded (HK\$)	Status
68	CityU 1110/00E	Concatenated Hadamard Codes for CDMA Systems	Dr Ping Li	646,817	On-going
69	HKU 1180/00E	Hierarchical Cache Scheme for Enhancing TCP over Heterogeneous Networks with Wired and Wireless Links	Dr Lawrence Kwan Yeung	437,817	On-going
70	CUHK 1221/00E	Encoding the Connectivity of Events: A Dynamic Connectionist Approach to Gist Preservation	Dr Samuel Wai Kwong Chan	437,817	On-going
71	HKUST 2033/00E	Information Geometry of Kernel Methods with Applications to Data Mining	Dr James Kwok	437,817	On-going
72	HKBU 2057/00E	An Improvement of Mallat's Method on Singularity Detection and Processing with Wavelets	Dr Yuan Yan Tang	623,817	On-going
73	CUHK 4169/00E	Extending APT Financial Modeling by State Space Approach, Kalman Filtering and Temporal BYY Learning	Prof Lei Xu	623,817	On-going
74	CUHK 4175/00E	Linear Quadratic Control via Semidefinite Programming, with Applications	Prof David Da Wei Yao	635,817	On-going
75	CUHK 4177/00E	Semi-Automatic Grammar Acquisition for Understanding Natural Language Queries	Prof Helen Mei Ling Meng	437,817	On-going
76	CUHK 4181/00E	Conic Optimization: Theory and Methods	Prof Shuzhong Zhang	437,817	On-going
77	CUHK 4183/00E	Collaborating Redundant Models in Constraint Satisfaction	Prof Jimmy Ho Man Lee	437,817	On-going
78	CUHK 4185/00E	An Intelligent Virtual Environment for Chinese Acupuncture Learning and Training	Prof Ann Pheng Heng	437,817	On-going
79	CUHK 4186/00E	Accelerating High-Quality Volume Visualization with Image-based Computer Graphics	Prof Tien Tsin Wong	437,817	On-going
80	CUHK 4193/00E	Dependability and Security Paradigms for Mobile Agent Systems	Prof Michael Rung Tsong Lyu	437,817	On-going
81	CUHK 4198/00E	Dynamic Aggregate View Selection and Maintenance for Large Financial Data Warehouses	Prof Jeffrey Xu Yu	437,817	On-going
82	CUHK 4222/00E	Power Control for Wireless Multimedia System in a Fading Environment	Prof Wing Shing Wong	437,817	On-going
83	CUHK 4227/00E	Mobile Communication Enhancement through Fast Adaptive Signal Processing	Prof John B Moore	239,817	On-going
84	CUHK 4229/00E	Integrated Retransmission and Adaptation Scheme for Video Streaming over Legacy and Advanced Internet with QoS Guarantee	Prof Soung Chang Liew	437,817	On-going
85	PolyU 5078/00E	Digital Filter Design via Optimization Techniques	Prof Kok Lay Teo	635,817	On-going
86	PolyU 5080/00E	Non-Convex Multiple Criteria Optimization	Dr Xiaoqi Yang	437,817	On-going
87	PolyU 5081/00E	Deterministic and Stochastic Scheduling Models for Team-Work Jobs	Dr Xian Zhou	437,817	On-going
88	PolyU 5082/00E	Progressive Image Mosaics and Morphing in Wavelet Domain	Dr Paul Ge Bao	437,817	On-going
89	PolyU 5085/00E	Quantum Packet for Integrated Services Data Network - the Third Generation ISDN	Dr Henry Chun Bun Chan	437,817	On-going
90	PolyU 5094/00E	Semantic Chunking for Web Queries	Dr Vincent To Yee Ng	449,600	On-going
91	PolyU 5096/00E	Adaptation Guided Retrieval of Text-based Cases: A Neuro-Fuzzy Approach	Dr Simon Chi Keung Shiu	437,817	On-going
92	HKUST 6050/00E	Markov Decision Problems With Partial Observable States	Prof Xiren Cao	635,817	On-going

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	Project No.	Project Title	Principal Investigator	Awarded (HK\$)	Status
93	HKUST 6060/00E	XBASE: An XML Document Management System	Dr Hongjun Lu	623,817	On-going
94	HKUST 6061/00E	Strongest Necessary Conditions, Weakest Sufficient Conditions, And Their Applications	Dr Fangzhen Lin	635,817	On-going
95	HKUST 6066/00E	Enhancing The Performance Of Distributed WWW Server Systems	Prof Samuel Chanson	437,817	On-going
96	HKUST 6067/00E	Coping With Nonuniform Traffic And Heterogeneous User Mobilities In Wireless Multi-media Networks	Dr Jelena Masic	437,817	On-going
97	HKUST 6070/00E	Complex Spatial Query Processing	Dr Dimitrios Papadias	635,817	On-going
98	HKUST 6122/00E	Numerical Simulation Of The Tidal Bore On The Qiantang River	Prof Grafton W H Hui	635,817	On-going
99	HKUST 6162/00E	Analyzing The Capacity Of Two-dimensional Constrained Codes	Dr Mordecai J Golin	437,817	On-going
100	HKUST 6163/00E	Bandwidth Allocation With QoS Guarantee For Multiple Traffic Streams In Wireless Cellular Networks	Dr Bo Li	619,000	On-going
101	HKUST 6166/00E	Editing And Presenting High-dimension, Online, Large And Dynamic (HOLD) Tables	Prof Derick Wood	437,817	On-going
102	HKUST 6229/00E	Efficient Expected-case Algorithms For Problems In Geometric Searching	Dr Sunil Arya	437,817	On-going
103	HKUST 6241/00E	Data Access And Dissemination In A Multicell Mobile Computing Environment	Dr Dik Lun Lee	623,817	On-going
104	HKUST 6246/00E	User Guided Multidimensional Feature Extraction And Visualization	Dr Chi-keung Tang	437,817	On-going
105	HKUST 6256/00E	Two-tier Bigrammars: A Unified Approach To Machine Translation Learning	Dr Dekai Wu	437,817	On-going
106	HKU 7019/00E	Tetrahedralization of convex polyhedron	Prof Francis Yuk Lun Chin	635,817	On-going
107	HKU 7021/00E	On the theory and practice of digital signatures in workflow	Dr Chi Kwong Hui	437,817	On-going
108	HKU 7022/00E	New techniques towards task-independent subword modeling for Putonghua recognition	Dr Qiang Huo	633,817	On-going
109	HKU 7024/00E	Design, implementation, and evaluation of parallel multithreading for high speed processing of communication protocols on a Linux-based symmetric multiprocessor	Dr Yu Kwong Kwok	457,817	On-going
110	HKU 7026/00E	State-space modeling of multivariate grouped survival data	Dr Kwok Fai Lam	487,817	On-going
111	HKU 7032/00E	Parsing of inference between quadric primitives	Dr Wen Ping Wang	437,817	On-going
Subject Area Total				26,004,450	

Subject Area: Electrical and Electronic Engineering					
112	CityU 1005/00E	Study of Expanded Smart-antenna Concept and Architecture for Improved System-capacity and Quality-of-service in Future Mobile Communication Systems	Prof The Bao Vu	437,817	On-going
113	CityU 1027/00E	Lowering Operating Voltage of Organic Light-emitting Diodes by Improving Electron Transport Capability	Prof Liang Sun Hung	467,817	On-going
114	CityU 1028/00E	Electrode Modification and Interface Optimization of Polymer Light Emitting Diodes	Dr Chun Sing Lee	785,817	On-going

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	Project No.	Project Title	Principal Investigator	Awarded (HK\$)	Status
115	CityU 1032/00E	Plasma Immersion Treatment of Biomedical Materials and Components	Prof Paul Kim Ho Chu	687,817	On-going
116	CityU 1051/00E	Ion Beam Nucleation of Diamond	Dr Igor Bello	778,817	On-going
117	CityU 1088/00E	Image Reconstruction and Recovery from Incomplete Information	Prof Hong Yan	695,817	On-going
118	CityU 1098/00E	Secure Internet Image Communication via Multi-resolution Chaos Synchronization and Control	Dr Guanrong Chen	623,817	On-going
119	CityU 1127/00E	On the Differential Equations of Surface Current Densities on Antennas and Scatterers	Prof Kenneth Kwan Hsiang Mei	437,817	On-going
120	CityU 1129/00E	Active Feed Network for Third Generation Mobile Radio Transmitters	Dr Wing Shing Chan	530,817	On-going
121	CityU 1135/00E	Fuzzy Electromagnetics for CAD Integrated Circuit Design and Layout	Prof Leonard Yung Chow	487,817	On-going
122	CityU 1136/00E	Linearly- and Circularly-polarized Dielectric Resonator Antennas with a Backing Cavity	Dr Kwok Wa Leung	840,817	On-going
123	CityU 1156/00E	A Fundamental Integrated Study for Power Electronics Controlled High-intensity-discharge (HID) Lamp Systems	Prof Ron Shu Yuen Hui	846,817	On-going
124	CityU 1157/00E	Inputting A 3D Moving Object into Virtual Reality	Dr Kelvin Shiu Yin Yuen	835,817	On-going
125	CityU 1182/00E	Multiplexed Fibre Sensor System for Electric Current Measurement	Dr Beatrice Chi Bik Chu	572,817	On-going
126	CityU 1219/00E	Investigation of Microwave Devices Incorporating Planar Photonic-bandgap Structures	Prof Chi Hou Chan	722,817	On-going
127	CityU 1228/00E	M-ary Phase Shift Keying Detection by Fuzzy Logic	Dr Peter Sai Wing Leung	437,817	On-going
128	CityU 1229/00E	A High Frequency Multi-layer Circuit Design Technique of Field Theory for EM Couplings with Consideration to Thermal Conduction	Dr Kim Fung Tsang	477,817	On-going
129	CityU 1231/00E	A Shaped-beam Circular-cylindrical Microstrip Antenna Array	Prof Kwai Man Luk	764,817	On-going
130	CUHK 4165/00E	Fundamental Limits in Information Storage Systems	Prof Raymond Wai Ho Yeung	635,817	On-going
131	CUHK 4173/00E	Real-Time Control of Cooperative Robots via the Internet with Force Reflection	Prof Yunhui Liu	914,817	On-going
132	CUHK 4174/00E	Recurrent Neural Networks for Real-Time Grasping Force Optimization of Dexterous Manipulations using Multi-fingered Robotic Hands	Prof Jun Wang	623,817	On-going
133	CUHK 4197/00E	Smart Wheelchair	Prof Yangsheng Xu	738,817	On-going
134	CUHK 4209/00E	Approximation Methods for the Discrete Nonlinear Servomechanism Problem	Prof Jie Huang	635,817	On-going
135	CUHK 4210/00E	Harmonic Tuning of Source and Load Impedance to Improve Phase Linearity of Microwave Power Amplifiers for Wireless Digital Communications	Prof Michael Kwok Keung Cheng	487,817	On-going
136	CUHK 4212/00E	New Heterojunction Bipolar Transistors (HBT) with GaAsSb base for Wireless Communication Applications	Prof Chung Chi Hsu	737,817	On-going
137	CUHK 4213/00E	Simulation and Design Methodology of Advanced Multi-Chip Module (MCM) System for Wireless Communication Applications	Prof Ke Li Wu	487,817	On-going
138	CUHK 4214/00E	Size Effects of SrBi ₂ Ta ₂ O ₉ (SBT) Ferroelectric Thin Films	Prof Jian Bin Xu	587,817	On-going

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	Project No.	Project Title	Principal Investigator	Awarded (HK\$)	Status
139	CUHK 4215/00E	The Formation of Metal Nano-clusters in Dielectric Materials by Ion Gettering	Prof Ian Howard Wilson	487,817	On-going
140	CUHK 4216/00E	Nano-granular Metal-carbon Thin Films by Pulsed Filtered Vacuum Arc Deposition	Prof Joseph Sai Peng Wong	935,817	On-going
141	CUHK 4217/00E	Hybrid Generalized Characteristic Method and Extended Finite Difference Time Domain Method for Active Antenna Design and Optimization	Prof Albert Kin Yue Lai	437,817	Terminated
142	CUHK 4218/00E	900 and 1800 MHz Digital Controlled Oscillators for Wireless Communication	Prof Cheong Fat Chan	517,817	On-going
143	CUHK 4219/00E	Development of a Cantonese Text-to-Speech System with High Naturalness	Prof Tan Lee	447,817	On-going
144	CUHK 4220/00E	A New Family of Electrically Wavelength-tunable Semiconductor and Fiber Lasers	Prof ChesterChing Tat Shu	514,817	On-going
145	CUHK 4221/00E	Measurement of All-optical Nonlinearities in Ion-Implanted Materials	Prof Hon Ki Tsang	567,817	On-going
146	CUHK 4223/00E	Architecture for IP Operating on WDM	Prof Peter Tak Shing Yum	437,817	On-going
147	CUHK 4225/00E	System Limitations of Optical Networks due to Crosstalk	Prof Ricky Keang Po Ho	707,817	On-going
148	CUHK 4228/00E	Homodyne Crosstalk Reduction using Nonlinear Absorption in FP Laser Diode	Prof Franklin Fuk Kay Tong	557,817	On-going
149	PolyU 5105/00E	A New Biometric Authentication System Based on Palmprint Technology	Dr David Da Peng Zhang	447,817	On-going
150	PolyU 5115/00E	Polymer Optical Fibre Grating Pressure Sensors for Medical (Orthopaedic) Applications	Dr Hwa Yaw Tam	646,817	On-going
151	PolyU 5118/00E	Real-Time Electromagnetic Electromechanical Hybrid Transient Simulation for Large Power Systems	Dr Ka Wing Chan	655,817	On-going
152	PolyU 5119/00E	Applications of Pseudo-Spectral Time Domain (PSTD) Method for EM Wave Propagation in Indoor and Outdoor Environments	Dr Yin Chao Chen	454,400	Terminated
153	PolyU 5125/00E	Environmentally Green Energy Management System for Future Homes/Offices	Prof Yim Shu Lee	437,817	On-going
154	PolyU 5127/00E	Intelligent Control System for Home Appliances	Dr Frank Hung Fat Leung	437,817	On-going
155	PolyU 5129/00E	Wavelet Singularity Detection for Very Low Bit-rate Image and Video Coding	Dr DanielPak Kong Lun	457,817	On-going
156	HKUST 6046/00E	Infinite Horizon Model Predictive Control	Dr Li Qiu	635,817	On-going
157	HKUST 6048/00E	Designing Compact Integrated Diversity Antennas For Wireless Communication	Dr Ross D Murch	467,817	On-going
158	HKUST 6049/00E	Chinese Speech Recognition Using The Segmental Models	Dr Man Hung Siu	437,817	On-going
159	HKUST 6051/00E	Organic Light Emitting Diodes With Novel Structures Using A Combination Of Evaporation And Pulsed Laser Deposition	Prof Hoi Sing Kwok	891,817	On-going
160	HKUST 6053/00E	Applications Of Metal Induced Laterally Crystallized Polycrystalline Silicon To Integrated Micro-systems	Dr Man Wong	668,817	On-going
161	HKUST 6056/00E	On The Minimization Of Flicker And Image Retention In Active Matrix Liquid Crystal Displays	Dr Ho-chi Huang	437,817	On-going

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	Project No.	Project Title	Principal Investigator	Awarded (HK\$)	Status
162	HKUST 6057/00E	A Computational Framework For Non-invasive Recovery Of Material Properties From Image Sequence: Applications To Cardiac Tissues	Dr Pengcheng Shi	655,817	On-going
163	HKUST 6130/00E	Fully Depleted SOI MOSFET Using Self-aligned Polysilicon Gate With Low And Symmetric Source/Drain Resistance	Prof Philip C H Chan	839,817	On-going
164	HKUST 6151/00E	Novel Photodetectors With Very Low Intrinsic Noise For Very Weak Light Detection	Dr Yuqi Wang	484,817	On-going
165	HKUST 6160/00E	Photonic Switching Networks Under Crosstalk Constraints	Prof Chin-tau Lea	437,817	On-going
166	HKUST 6173/00E	Wavelets Based Multi-access Digital Communication System	Dr Chi-wah Kok	655,817	On-going
167	HKUST 6183/00E	Technology Development And Device Design For 3-D Vertical Integration	Dr Man Sun Chan	557,817	On-going
168	HKUST 6226/00E	High Performance Thin-film-transistors On Single Grain Silicon By Locally Enhanced Crystallization	Dr Vincent M C Poon	597,817	On-going
169	HKUST 6236/00E	Design And Characterization Of SOI CMOS Mixers For RF Applications	Prof Ping Keung Ko	860,817	On-going
170	HKUST 6254/00E	Dual Band (2.4/5.7 GHz) RF Circuit And Coding Scheme For Very High Bit Rate Operation	Dr Jack Lau	657,817	On-going
171	HKU 7038/00E	A study of multiplier-less perfect reconstruction modulated filter banks	Dr Shing Chow Chan	437,817	On-going
172	HKU 7039/00E	Neuro-fuzzy position control of ultrasonic motors and its application	Dr Kwok Tong Chau	447,817	On-going
173	HKU 7047/00E	Providing internet services in next-generation mobile CDMA networks	Prof Victor On Kwok Li	934,817	On-going
174	HKU 7049/00E	Signal design to reduce effects of carrier frequency offset and peak-to-average power ratio on orthogonal-multicarrier spread-spectrum systems	Prof Tung Sang Ng	527,817	On-going
175	HKU 7050/00E	Security management with congestion analysis in electricity market	Dr Yixin Ni	437,817	On-going
176	HKU 7056/00E	Analysis and design of vertical cavity surface emitting lasers for self-sustained pulsation	Dr Siu Fung Yu	437,817	Terminated
177	HKU 7395/00E	Fabrication of organic photovoltaic cells	Dr Eddie Herbert Li	467,817	On-going
Subject Area Total				39,415,505	

Subject Area: Mechanical, Production & Industrial Engineering					
178	CityU 1007/00E	Development of A Hybrid-intelligence Data-mining Framework to Derive Hidden Knowledge from Power-plant Databases	Prof Shiu Kit Tso	445,817	On-going
179	CityU 1015/00E	Strategy Investigation, Utilization of Environment and Sensory Information in Robotic Task	Dr Hong Qiao	436,840	On-going
180	CityU 1023/00E	Towards Green Lubrication for Metal Forming and Enhanced Formability of Sheet Metals Using Conventional and Hard Tooling	Dr Kamineni P Rao	472,817	On-going
181	CityU 1029/00E	Basic Studies on the Failure Mechanisms and Microstructures of Short Glass Fibre-reinforced Polypropylene/elastomer Blends	Dr Sie Chin Tjong	527,817	On-going

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	Project No.	Project Title	Principal Investigator	Awarded (HK\$)	Status
182	CityU 1039/00E	Properties of a Zirconium-base Amorphous Alloy under Various Loading Conditions	Dr Chan Hung Shek	520,817	On-going
183	CityU 1046/00E	A Smart, Low-cost, and Fast-to-Process Electronic Ear for Fault Diagnosis Using Machine Operating Sound and Analyzing by Wavelet Transforms and Neural Networks	Dr Peter Wai Tat Tse	514,817	On-going
184	CityU 1049/00E	Design and Sensing Configuration Control of an Active Vision System for 3-D Object Modeling	Dr You Fu Li	522,817	On-going
185	CityU 1054/00E	Performance-oriented Intelligent Multivariable Control for a Class of Semiconductor Packaging Processes	Dr Han Xiong Li	437,817	On-going
186	CityU 1069/00E	Dynamic Fracture Characterization of Ductile Polymers and Short Fibre Reinforced Polymers Using the Essential Work of Fracture Approach	Dr Robert Kwok Yiu Li	569,817	On-going
187	CUHK 4170/00E	Mechanical Behavior of Bulk Nanostructured Alloys Synthesized by Rapid Solidification	Prof Hing Wing Kui	835,817	On-going
188	CityU 4171/00E	Field-Induced Nano-Engineering (FINE)	Prof John Kwok Fung Yau	592,817	On-going
189	CUHK 4205/00E	Active-Passive Hybrid Vibration Control Using Enhanced Self-Sensing Piezoelectric Actuators	Prof Wei Hsin Liao	683,817	On-going
190	CUHK 4206/00E	Micromachined Nafion Actuators for Tactile-display Systems	Prof Wen Jung Li	501,817	On-going
191	PolyU 5140/00E	Laser Fabrication of Ceramic-Reinforced Metal Matrix Composite Surface Layer on Stainless Steel for Enhancing Cavitation Erosion Resistance	Dr Fai Tsun Cheng	514,817	On-going
192	PolyU 5141/00E	A Novel Approach for Fabricating Low-Stress Thick Cubic Boron Nitride Coatings on Tungsten Carbide-Based Cutting Tools	Dr Chung Wo Ong	556,817	On-going
193	PolyU 5142/00E	Heat and Moisture Transfer with Sorption and Phase Change in Fibrous Insulation and the Prevention of Condensation in Clothing Assemblies	Dr Jintu Fan	777,817	On-going
194	PolyU 5143/00E	Study of Permeability of Multilayer Woven Fabrics in Composite Fabrication Process	Dr Jinlian Hu	550,817	On-going
195	PolyU 5146/00E	Mechanisms of Structural Modification of Rotor and Ring Knitting Yarns	Prof Xiaoming Tao	520,817	On-going
196	PolyU 5148/00E	Experimental Study of the Topology and Evolution Dynamics of Turbulent Coherent Structures by Using Holographic Velocimetry	Dr John Kwok Tung Chan	477,817	On-going
197	PolyU 5152/00E	A Multiscale Model of Texture Competition During Thin Film Growth - Hybrid of ADEPT and EVOLVE	Dr Han Chen Huang	515,817	On-going
198	PolyU 5154/00E	Investigations of Flows around Wavy Cylinders	Mr Kit Lam	467,817	On-going
199	PolyU 5159/00E	Computer Simulation of Morphological and Microstructural Evolution of Hydride Precipitates in Polycrystalline Metals under Non-uniform Stress and Temperature Transients	Dr San Qiang Shi	467,817	On-going
200	PolyU 5161/00E	An Investigation on Noise Generation Due to Flow-Induced Vibrations of Elastic Structures	Prof Ronald Ming Cho So	596,817	On-going
201	PolyU 5164/00E	Active Damage Detection for Composite Material Structures Using Embedded Piezoelectric Actuators and Sensors	Dr Lai Hang Yam	637,817	On-going
202	PolyU 5175/00E	Enhancement of Ceramic-Metal Bonding of Titanium Implants by Laser Surface Nitriding and Selective Etching	Dr Hau Chung Man	560,817	On-going

Appendix M: Continued

Engineering

	Project No.	Project Title	Principal Investigator	Awarded (HK\$)	Status
203	PolyU 5176/00E	Damage Modelling of Particulate Biocomposite Using Hybrid Macro-Micro Superelement Technique	Dr Chak Yin Tang	695,817	On-going
204	HKUST 6012/00E	Inventory Systems With Substitution And Unreliable Supply Sources	Dr Shaohui Zheng	914,817	On-going
205	HKUST 6073/00E	Quality Control For A Multistage Process Combining SPC And APC	Dr Fugee Tsung	437,817	On-going
206	HKUST 6074/00E	Experimental Study On The Deformation And Instability Of Superelastic TiNi Shape Memory Alloy Micro-tubing	Dr Qingping Sun	748,817	On-going
207	HKUST 6076/00E	Agent-based Distributed Scheduling	Dr Benjamin P C Yen	437,817	On-going
208	HKUST 6077/00E	Competitive Dynamic Pricing For Make-to-order Firms	Dr Yat Wah Wan	635,817	On-going
209	HKUST 6078/00E	Assessment On The Effects Of Electroless Nickel Plating On The Reliability Of Solder Ball Attachment To The Bond Pads Of Plastic Ball Grid Array Substrate	Dr Ricky S W Lee	517,817	On-going
210	HKUST 6079/00E	Energy-absorption Of Cellular Materials And Cellular Structures Under Dynamic Loading: Experiments And Modeling	Prof Tongxi Yu	567,817	On-going
211	HKUST 6080/00E	Characterization And Modeling Of Strain Gradient Plasticity Effect In Crack Tip In Polymer	Dr David C C Lam	685,817	On-going
212	HKUST 6082/00E	Microfluidic Devices For Capillary Electrophoresis	Dr Yitshak Zohar	725,817	On-going
213	HKUST 6089/00E	Design And Control Of Multi-site Service Systems With Customer Balking	Dr Liming Liu	821,817	On-going
214	HKUST 6157/00E	Magnetic Materials Study For Magnetic Refrigeration At Room Temperature	Dr Xixiang Zhang	537,817	On-going
215	HKUST 6164/00E	Customer Behavior In Web-based Mass-customization Systems: An Experimental Study On The Buying Decision-making Process Over The Internet	Dr Richard H Y So	466,817	On-going
216	HKUST 6175/00E	A New Method For Numerical Reconstruction Of A 3-D Object From Its Hologram	Dr Lilong Cai	437,817	On-going
217	HKUST 6178/00E	Heat Transfer Characteristics Of Micromachined Silicon Inverted-meniscus Evaporators	Dr Tianshou Zhao	1,064,817	On-going
218	HKUST 6180/00E	Coalescence, Heat Transfer And Recondensation In Evaporating Dense Spray	Dr Huihe Qiu	457,817	On-going
219	HKUST 6181/00E	Study Of Mechanical Properties Of Multilayered Thin Film Using The Microbridge Testing	Prof Pin Tong	635,817	On-going
220	HKUST 6237/00E	Fundamental Heat Transfer Study For Powder Systems With Small Length Scales	Dr Steve H K Lee	785,817	On-going
221	HKU 7062/00E	A systematic method for designing heterogeneous components with special functions using Axiomatic Design and Topology Optimization	Dr Kezhang Chen	685,817	On-going
222	HKU 7064/00E	Feasibility study on development of self-reinforced composites from recycled PET and PP	Dr Wai Lam Cheung	497,817	On-going
223	HKU 7066/00E	A study on higher order nonlinear effects in hydrodynamical and optical solitons	Dr Kwok Wing Chow	437,817	On-going
224	HKU 7068/00E	Effects of navigation and reclamation on waves in Victoria Harbour	Prof Allen Tse Yung Chwang	635,817	On-going
225	HKU 7069/00E	Functionally graded part fabrication based on the SLS process	Dr Ian Gibson	577,817	On-going

Appendix M: Continued

Engineering

	Project No.	Project Title	Principal Investigator	Awarded (HK\$)	Status
226	HKU 7070/00E	Development of a web-based brokering framework to encourage early supplier involvement (ESI) in new product development (NPD) on the Internet	Dr Guo Quan Huang	437,817	On-going
227	HKU 7077/00E	A TEM investigation into the anomalous insulator-to-metal transition in sputter coated nickel-aluminium thin films	Dr Alfonso Hing Wan Ngan	675,817	On-going
228	HKU 7081/00E	On the size effects in micro-mechanics based characterization and performance modeling of functionally graded composite coatings/ layers	Dr Ai Kah Soh	547,817	On-going
229	HKU 7083/00E	Computational methods for meso-electromechanical analysis of ferroelectrics and ferroelectric devices	Dr Kam Yim Sze	457,817	On-going
230	HKU 7085/00E	Multiple material objects: from CAD representation to rapid prototyping	Prof Sooi Thor Tan	713,817	On-going
231	HKU 7086/00E	Bifurcation and stability of forced convection in curved ducts	Dr Liqiu Wang	457,817	On-going
Subject Area Total				31,412,141	
Grand Total				131,784,998	

Appendix M: Continued

Physical Sciences

	Project No.	Project Title	Principal Investigator	Awarded (HK\$)	Status
Subject Area: Chemical Engineering					
232	PolyU 5184/00P	Development of Fiber Optic Sensors for Rapid Biochemical Oxygen Demand (BOD) Measurement	Prof Kwok Yin Wong	337,817	On-going
233	HKUST 6037/00P	Environmental Applications Of Mesoporous Silica With Engineered Pore Structure And Tailored Chemistry	Dr King Lun Yeung	337,817	On-going
234	HKUST 6038/00P	Dielectric Material Assisted Microwave Freeze Drying Of Extracts Of Chinese Medicine	Dr Guohua Chen	297,817	On-going
235	HKUST 6039/00P	The Role Of Water-soluble Organic Compounds (WSOC) On The Hygroscopic Growth Of Atmospheric Aerosols	Dr Chak Keung Chan	443,817	On-going
236	HKUST 6042/00P	Development Of Finite Element Simulation Programs For Polymer Electrolyte Fuel Cells (PEFCs) And Light Hydrocarbon Based Compact Reformers	Dr I-ming Hsing	287,817	On-going
237	HKUST 6232/00P	A Systematic Experimental Study Of Wastewater Treatment By Catalytic Oxidation	Dr Xijun Hu	337,817	On-going
238	HKUST 6244/00P	Preparation Of High Performance UHMWPE Prostheses In Total Joint Replacements	Dr Ping Gao	337,817	On-going
239	HKUST 6247/00P	A Novel Photocatalytic System With An Aerogel Matrix Of Nanometer-sized Catalyst Particles For The Removal Of Volatile Organic Compounds (VOCs)	Prof Po Lock Yue	337,817	On-going
240	HKU 7089/00P	Chemical analysis for quality control/quality assurance in the preparation of traditional Chinese medicine	Dr Ying Sing Fung	337,817	On-going
Subject Area Total				3,056,353	

Subject Area: Physical Sciences					
241	CityU 1033/00P	Silicon-oxide Assisted Growth of Silicon Nanowires: A Tight-binding Molecular Dynamics Simulation	Dr Rui Qin Zhang	626,817	On-going
242	HKUST 1043/00P	Growth and Characterization of Semiconductor Nanocomposites	Dr Ning Wang	419,817	On-going
243	CityU 1104/00P	A Study of a Solvent Extraction Method for the Treatment of Rinsewater Generated in Chromium (III) Electroplating	Dr Peter Yu Keung Sze	337,817	On-going
244	CityU 1114/00P	The Preformed Sol Route to YAP	Prof Peter A Tanner	313,817	On-going
245	CityU 1116/00P	Luminescent Transition Metal Complexes as Non-isotopic Labels for Nucleic Acids	Dr Kenneth Kam Wing Lo	419,817	On-going
246	CityU 1117/00P	Multi-electron Transfer Reactions of Complexes Containing Metal-nitrogen Multiple Bonds	Dr Tai Chu Lau	771,817	On-going
247	CityU 1119/00P	New C2-symmetric Dipyridyl Ligands for Copper-catalyzed Asymmetric Cyclopropanation of Alkenes	Dr Hoi Lun Kwong	419,817	On-going
248	CityU 1137/00P	Clinical Evaluation and Improvement of Three Radiotherapy Skin Dose Detectors	Dr Tsang Cheung	290,817	On-going
249	HKBU 2016/00P	Late Quaternary and Modern Organic Matter Accumulation in Hong Kong - Implications for Environmental Studies	Dr R Bernhart Owen	317,817	On-going
250	HKBU 2023/00P	Steric and Electronic Influence on the Synthesis and Chemistry of Lanthanide Porphyrinate Complexes	Prof Wai Kwok Wong	399,817	On-going
251	HKBU 2024/00P	Chemistry of Alpha, Beta-Unsaturated Gamma-Sultam	Prof Albert W M Lee	337,817	On-going

Appendix M: Continued

Physical Sciences

	Project No.	Project Title	Principal Investigator	Awarded (HK\$)	Status
252	HKBU 2025/00P	Capillary Electrophoresis: A Powerful Research Tool in Photodynamic Cancer Therapy	Dr Carmen Wah Kit Huie	337,817	On-going
253	HKBU 2029/00P	An Important Aspect of Biocatalysis - A Study of Proteins in Organic Media by Computational Method	Dr Yuen Kit Cheng	287,817	On-going
254	HKBU 2037/00P	An Investigation of the Use of Carbon Nanotubes in Heterogeneous Catalysis	Prof Ching Fai Ng	503,817	On-going
255	HKBU 2041/00P	Catalytic Decomposition of Chlorofluorocarbons	Dr Suk Yin Lai	366,817	On-going
256	HKBU 2043/00P	Continuous and Discrete Integrable Models and Their Explicit Solutions	Ms Yong Tang Wu	287,817	On-going
257	HKBU 2046/00P	Resonance-enhanced Laser-induced Plasma Spectroscopy for Elemental Analysis	Prof Nai Ho Cheung	801,817	On-going
258	HKBU 2055/00P	A Study of the Specific DNA-Photocleavage Activities of Vanadium(V) - Peroxo Complexes at Neutral pH	Dr Daniel W J Kwong	327,817	On-going
259	HKBU 2060/00P	Quantum Computing	Dr Shi Yao Zhu	297,817	On-going
260	HKBU 2061/00P	Current-voltage Characteristics of Mesoscopic Superconducting Networks	Dr Lei Han Tang	403,817	On-going
261	HKBU 2062/00P	Study on Optical Property of Organo-porous Silicon Material	Dr Kok Wai Cheah	337,817	On-going
262	HKBU 2063/00P	Current Transports in Organic Electroluminescent Devices	Dr Shu Kong So	419,817	On-going
263	CUHK 4230/00P	A Novel Technique for the Analyses of Depth Distributions of Chemical States and Compositions in Semiconductor Materials with Sub-nanometer Resolution	Prof Raymond Wai Man Kwok	603,817	On-going
264	CUHK 4264/00P	The Construction of Chiral 3-Dimensional Molecular Scaffolds Using Tetraphenylenols as Building Blocks	Prof Henry Nai Ching Wong	337,817	On-going
265	CUHK 4265/00P	Metal Complexes of a Tridentate Diamide Ligand	Prof Wing Por Leung	337,817	On-going
266	CUHK 4266/00P	Phase Transitions of Novel Polymer Brushes	Prof Chi Wu	419,817	On-going
267	CUHK 4267/00P	Group 4 Metal Carborane Complexes: Synthesis, Structure, and Reactivity	Prof Zuo Wei Xie	419,817	On-going
268	CUHK 4268/00P	Studies on the Coordination Chemistry of Acetylenediide and Pseudohalide Anions	Prof Chung Wai Thomas Mak	1,153,817	On-going
269	CUHK 4272/00P	High-resolution Spectroscopy of CH ₂ ⁺ and Nh ₂ ⁺ : The Study of Rovibronic Interactions of Quasilinear Molecules	Prof Man Chor Chan	337,817	On-going
270	CUHK 4273/00P	Artificial Globular Proteins: Synthesis and Characterization of alpha-Amino Acid-based Peptide Dendrimers	Prof Hak Fun Chow	721,817	On-going
271	CUHK 4274/00P	Dissociation of Large Ions in a Fourier-transform Ion-Cyclotron-Resonance Mass Spectrometer	Prof Tak Wah Dominic Chan	337,817	On-going
272	CUHK 4275/00P	Gaussian-3 Study on the Structures, Reactions, and Energetics of Some Interesting Chemical Systems	Prof Wai Kee Li	297,817	On-going
273	CUHK 4276/00P	Theoretical Study on Solvation Dynamics and Intracluster Reactions for Al ⁺ (H ₂ O) _n Ion Clusters	Prof Zhi Feng Liu	287,817	On-going
274	CUHK 4281/00P	Development of a Technique for and the Determination of the Viscous Boundary Layers in Low Prandtl Number Turbulent Convection	Prof Ke Qing Xia	337,817	On-going

Appendix M: Continued

Physical Sciences

	Project No.	Project Title	Principal Investigator	Awarded (HK\$)	Status
275	CUHK 4282/00P	Applications of Quasinormal-Mode Expansion in Open Wave Systems	Prof Pui Tang Leung	287,817	On-going
276	CUHK 4284/00P	First-Principles Approach to Dynamic ER Effects in Complex Fluids	Prof Kin Wah Yu	287,817	On-going
277	CUHK 4286/00P	Velocity and Temperature Statistics in Turbulent Convection	Prof Emily Shuk Chi Ching	287,817	On-going
278	CUHK 4288/00P	Phase Separation in Colossal Magnetoresistance Materials	Prof Hai Qing Lin	287,817	On-going
279	CUHK 4292/00P	A Finite Element Method for Nonlinear Convection Problems in Rapidly Rotating Spherical Shells with Applications to Planetary Fluid Systems	Prof Jun Zou	287,817	On-going
280	PolyU 5077/00P	Reformulation Methods in Optimization	Prof Liqun Qi	379,817	On-going
281	PolyU 5185/00P	Novel Chiral Phosphite Ligands and Their Applications in Asymmetric Catalysis	Prof Albert Sun Chi Chan	337,817	On-going
282	PolyU 5187/00P	Simulation of Spectra of Short-Lived Molecules of Importance in the Earth Atmosphere and Stellar and Interstellar Atmospheres	Prof Tim Foo Chau	287,817	On-going
283	PolyU 5188/00P	s-Bond Metathesis: $[\text{LmM}(\text{H}_2\text{O})\text{H}]_n^+$ $[\text{LmM}(\text{H}_2)(\text{OH})]_n^+$. Reactivities and Catalytic Activities of the Tautomers	Dr Chak Po Lau	337,817	On-going
284	PolyU 5190/00P	Substituent Effects in Cation- Interaction: a Combined Mass Spectrometric and Ab Initio Study	Dr Chun Wai Tsang	379,817	On-going
285	PolyU 5193/00P	Ferroelectric Lead Magnesium Niobate-Lead Titanate Single Crystals and Composites for Transducer and Actuator Applications	Prof Helen Lai Wah Chan Wong	307,817	On-going
286	PolyU 5194/00P	Development of a Model for the Design of Thin Film Ferroelectric Memory Devices	Dr Veng Cheong Lo	287,817	On-going
287	HKUST 6118/00P	Numerical Study Of The Solar Differential Rotation By A Global Spectral Method	Prof Kwing Lam Chan	379,817	On-going
288	HKUST 6119/00P	Ehrhart Polynomials And Combinatorial Riemann-roch For Lattice Polytopes And Polyhedra	Dr Beifang Chen	287,817	On-going
289	HKUST 6121/00P	The Geometry And Statistics Of Particle Dispersion	Dr Jimmy C H Fung	287,817	On-going
290	HKUST 6129/00P	The Dynamics Of Doubly-singular Parabolic Equations With Absorption	Dr Yuan Wei Qi	287,817	On-going
291	HKUST 6132/00P	Gas-kinetic Methods For Computational Fluid Dynamics	Dr Kun Xu	287,817	On-going
292	HKUST 6137/00P	Spin Polarized Vacuum Tunneling From Magnetic Thin Films	Dr Michael S Altman	419,817	On-going
293	HKUST 6138/00P	Multiple-scattering Theory In Real Space And The Quantitative Theory Of Photo-induced Interactions	Dr Che Ting Chan	631,817	On-going
294	HKUST 6139/00P	Experimental And Theoretical Study Of The Optical Anisotropy Of Common-atom Semiconductor Interfaces	Dr Bradley A Foreman	337,817	On-going
295	HKUST 6140/00P	High Resolution Transmission Electron Microscopy And Conductivity Study Of Isolated And Embedded Metallic Nanoparticles	Dr Kwok Kwong Fung	337,817	On-going
296	HKUST 6141/00P	Development Of Nanostructured Polymeric Materials And Devices For Converting Light To Electricity — Solar Cells And Photo-detectors	Dr Weikun Ge	307,817	On-going
297	HKUST 6142/00P	Coulomb Blockade And Quantum Effects In Granular Systems	Dr Tai Kai Ng	287,817	On-going
298	HKUST 6143/00P	Elastic Wave Bandgap From Tunable Scatterers	Prof Ping Sheng	651,817	On-going

Appendix M: Continued

Physical Sciences

	Project No.	Project Title	Principal Investigator	Awarded (HK\$)	Status
299	HKUST 6144/00P	Interdisciplinary Research On The Topological Characteristics Of Point Patterns Generated By Agent Dynamics	Dr Kwok Yip Szeto	379,817	On-going
300	HKUST 6145/00P	Light Emission And Lasing From 3D Photonic Crystals Formed By Metallo-dielectric Micro-spheres	Dr Wing Yim Tam	943,817	On-going
301	HKUST 6149/00P	Instabilities And Oscillations Of The Sequential Tunneling In Superlattices	Dr Xiangrong Wang	379,817	On-going
302	HKUST 6152/00P	Synthesis Of Micro-rods And Micro-disks For Electrorheological (ER) And Magnetorheological (MR) Fluids	Dr Weijia Wen	337,817	On-going
303	HKUST 6153/00P	Microstructure-enhanced Large Third-order Optical Nonlinearity In Metal Nanocluster-doped Dielectric Composite Films	Prof George K L Wong	533,817	On-going
304	HKUST 6155/00P	Investigation Of Gauche Defects As An Energy Dissipation Channel In Friction For Mixed Alkanethiol Monolayers	Dr Xu Dong Xiao	419,817	On-going
305	HKUST 6156/00P	Study Of II-VI Semiconductor Buried Interfaces By Reflectance Difference Spectroscopy With Sub-micrometer Spatial Resolution	Dr Zhi Yu Yang	287,817	On-going
306	HKUST 6158/00P	The Engineering Of Band Gaps For Elastic/acoustic Waves In "Phononic Crystals"	Dr Zhaoqing Zhang	287,817	On-going
307	HKUST 6185/00P	Chemical Analysis Of Water Soluble Organic Compounds In Atmospheric Particles	Dr Jianzhen Yu	419,817	On-going
308	HKUST 6186/00P	Theoretical Studies Of Transition Metal Boryl Complexes	Dr Zhenyang Lin	403,817	On-going
309	HKUST 6187/00P	Synthesis, Characterization And NLO Properties Of Conjugated Octopolar Organic And Organometallic Compounds	Dr Guocheng Jia	895,817	On-going
310	HKUST 6189/00P	Development Of Novel Materials Derived From Transition Metal Aryls	Dr Wa Hung Leung	419,817	On-going
311	HKUST 6191/00P	Enantiomerically-pure P-chiral Phosphine Oxides, Phosphine Sulfides And Phosphines For Asymmetric Catalysis	Prof Richard K Haynes	379,817	On-going
312	HKUST 6192/00P	Thin Films Of Endohedral Metallofullerenes	Dr Shihe Yang	419,817	On-going
313	HKUST 6193/00P	Theoretical Study Of Metal-alkylidene Catalyzed Ring-closing And Crossing Metathesis	Dr Yundong Wu	287,817	On-going
314	HKU 7028/00P	Common nonlinear dynamics in a panel of time series	Prof Wai Keung Li	287,817	On-going
315	HKU 7090/00P	South China sea marine geology	Dr Jonathan Clement Aitchison	337,817	On-going
316	HKU 7091/00P	Improvement of positron beam flux and quality	Dr Christopher David Beling	419,817	On-going
317	HKU 7094/00P	Geophysical and radiometric characterization of weathered rocks in Hong Kong	Dr Lung Sang Chan	287,817	On-going
318	HKU 7095/00P	Bis(sigma-carbanionic) tridentate ligands in organometallic chemistry	Dr Michael Chi Wang Chan	483,817	On-going
319	HKU 7096/00P	Electronic and optical properties of polymers based on transition metal complexes	Dr Wai Kin Chan	337,817	On-going
320	HKU 7097/00P	Development of a method for identification and quantitative analysis of biological molecule - metal ion complexes in herbal drugs based on CE-ICP and CE-MS analysis of Folium Ginkgo and Semen Ginkgo (Ginkgo leaf and seed)	Dr Wing Tat Chan	337,817	On-going
321	HKU 7098/00P	Classification by cellular automata	Dr Hoi Fung Chau	267,817	On-going

Appendix M: Continued

Physical Sciences

	Project No.	Project Title	Principal Investigator	Awarded (HK\$)	Status
322	HKU 7099/00P	Metal-mediated nitrogen atom transfer reactions. Organoimido, hydrazido and dinitrogen complexes of ruthenium and osmium	Prof Chi Ming Che	711,817	On-going
323	HKU 7100/00P	Photoexcitation in light harvesting systems	Dr Guanhua Chen	287,817	On-going
324	HKU 7101/00P	Cosmological gamma-ray bursts	Prof Kwong Sang Cheng	287,817	On-going
325	HKU 7103/00P	Studies in the enantioselective syntheses and transformations of heterobicyclic compounds	Dr Pauline Chiu	337,817	On-going
326	HKU 7107/00P	Development of an integrated particle sampler and lung radiation dosimeter	Dr John Kon Chong Leung	419,817	On-going
327	HKU 7112/00P	Time-resolved resonance Raman investigation of selected nitrenium ions and reaction intermediates	Dr David Lee Phillips	778,817	On-going
328	HKU 7113/00P	Magnetic, charge and orbital orderings in doped transition-metal oxides: theoretical study	Dr Shunqing Shen	379,817	On-going
329	HKU 7115/00P	Amalgamation of the north China craton	Dr Min Sun	337,817	On-going
330	HKU 7118/00P	Nonadiabatic noncyclic geometric phase and quantum transport in mesoscopic systems	Dr Zidan Wang	287,817	On-going
331	HKU 7119/00P	Lanthanide complexes for magnetic resonance imaging (MRI) contrast agents	Dr Wing Tak Wong	337,817	On-going
332	HKU 7120/00P	Combined LEED-IV direct imaging and curve fitting to study complex surface structures	Dr Hua Sheng Wu	419,817	On-going
333	HKU 7121/00P	Growth of gallium nitride on vicinal substrates	Dr Mao Hai Xie	337,817	On-going
334	HKU 7123/00P	Transition metal complexes with alkynyl-containing moieties as building blocks for metal-based materials with luminescence and/or chemosensing capabilities	Prof Vivian Wing Wah Yam	1,113,817	On-going
335	HKU 7124/00P	Developing asymmetric free radical cyclization methods for synthesis of biologically active natural products	Dr Dan Yang	811,817	On-going
336	HKU 7125/00P	New chiral catalysts and novel reagents for metal carbene transformations	Dr Tao Ye	419,817	On-going
337	HKU 7126/00P	Ground-truthing of high-resolution boomer seismic profiles on the Hong Kong continental shelf and applications	Dr Wyss Wai Shu Yim	337,817	On-going
338	HKU 7129/00P	Statistical inference for some semiparametric regression models with censored data	Dr Lixing Zhu	287,817	On-going
339	HKU 7396/00P	N2-scaling convergent multiple scattering method for analyzing crystal structures with small interlayer spacings	Prof David Shuk Yin Tong	379,817	On-going

Subject Area Total **40,719,883**

Subject Area: Pure Mathematics

340	CityU 1060/00P	Vacuum States for Compressible Flow	Dr Tong Yang	287,817	On-going
341	CityU 1061/00P	Iterative Algorithms for Solving Collocation Systems with Applications in Elasticity	Dr Wei Wei Sun	379,817	On-going
342	CityU 1065/00P	Some Topics in Wavelets Concerning Matrix Products	Dr Ding Xuan Zhou	379,817	On-going
343	CityU 1066/00P	The Theory and Applications of Truncated Newton Methods with PCG Subiterations	Prof Jason Jian Zhong Zhang	287,817	On-going

Appendix M: Continued

Physical Sciences

	Project No.	Project Title	Principal Investigator	Awarded (HK\$)	Status
344	CityU 1097/00P	Complexity and Geometric Recognition	Dr Joseph Maurice Rojas	379,817	Terminated
345	CityU 1132/00P	Uniform Asymptotic Expansions for Difference Equations	Prof Roderick Sue Cheun Wong	403,817	On-going
346	HKBU 2044/00P	Adaptive Mesh Methods for Partial Differential Equations	Dr Tao Tang	287,817	On-going
347	HKBU 2045/00P	Using of Artificial Boundary Conditions in Option Pricing	Dr Xiaonan Wu	287,817	On-going
348	HKBU 2059/00P	Point Processes Embedded in Interacting Population/Diffusion Networks	Dr Gang Wei	287,817	On-going
349	CUHK 4279/00P	Analysis of Some Problems for Incompressible Euler and Navier-Stokes Equations	Prof Zhou Ping Xin	379,817	On-going
350	CUHK 4290/00P	Partial Ordering and Convexity in Applied Functional Analysis and Applications	Prof Kung Fu Ng	287,817	On-going
351	CUHK 4291/00P	Analysis on Complete Manifolds	Prof Tom Yau Heng Wan	379,817	On-going
352	CUHK 4293/00P	Ruelle Operators and Dynamical Systems	Prof Ka Sing Lau	379,817	On-going
353	CUHK 4294/00P	Topics in Curvature Flows	Prof Kai Seng Chou	287,817	On-going
354	CUHK 4295/00P	Explicit Construction and Decoding Algorithms of Algebraic-geometric Codes	Prof Hing Sun Luk	287,817	On-going
355	CUHK 4299/00P	Wavelets in Statistical Function Estimation and Nonparametric Inferences	Prof Jian Qing Fan	287,817	On-going
356	HKUST 6123/00P	Integrability, Painleve Property, And Regular Differential Systems	Dr Ji Shan Hu	403,817	On-going
357	HKUST 6126/00P	Spectrum Of Laplacian On Arithmetic Manifolds	Prof Jian-shu Li	379,817	On-going
358	HKUST 6133/00P	Structure And Representation Theory Of Simple Vertex Operator Superalgebras Determined By Their Subspaces Of Small Weights	Dr Xiao Ping Xu	379,817	On-going
359	HKUST 6134/00P	Value Distribution Theory For Some Classes Of Non-analytic Functions And Its Applications	Prof Chung Chun Yang	287,817	On-going
360	HKUST 6135/00P	The Theory Of Linear Forms In Logarithms And Its Application To Diophantine Problems	Prof Kunrui Yu	287,817	On-going
361	HKUST 6136/00P	Structure And Applications Of Finite Dimensional Hopf Algebras	Dr Yong Chang Zhu	379,817	On-going
362	HKU 7130/00P	Canonical metrics, uniformization of complex manifolds, rigidity of holomorphic tangent bundles: generalizations of a theorem of K.H. Look	Dr Wing Sum Cheung	287,817	On-going
363	HKU 7131/00P	Consistency and efficiency of iterated resampling algorithms under general conditions	Dr Stephen Man Sing Lee	331,817	On-going
364	HKU 7132/00P	Iterative methods for Toeplitz Weighted Least Squares problems	Dr Kwok Po Ng	379,817	On-going
365	HKU 7134/00P	Automorphic conjugacy problem for free algebras: a combinatorial and computational approach	Dr Jietai Yu	379,817	On-going
Subject Area Total				8,771,242	
Grand Total				52,547,478	

Appendix M: Continued

Biology & Medicine

	Project No.	Project Title	Principal Investigator	Awarded (HK\$)	Status
Subject Area: Biological Sciences					
366	CityU 1103/00M	Biokinetics and Biotransformation of PSP Toxins in Green-lipped and Common Fan Mussels in Hong Kong	Dr Paul Kwan Sing Lam	823,400	On-going
367	CityU 1105/00M	Pathological Studies on Fish Gill and Liver upon Chronic Exposure to Toxic Algal Toxin	Dr Doris Wai Ting Au	1,097,100	On-going
368	CityU 1122/00M	Energetics, Nutrient Utilization and Reproductive Success of the Amphipod <i>Melita Longidactyla</i> under Hypoxia	Prof Rudolf Shiu Sun Wu	763,200	On-going
369	CityU 1123/00M	Toxicity and Biodegradation of Polycyclic Aromatic Hydrocarbons (PAHs) in Mangrove Ecosystem	Prof Nora Fung Yee Tam	715,200	On-going
370	CityU 1125/00M	Genotoxicity Assays for Environmental Carcinogens in Hong Kong Coastal Waters	Dr Bruce J Richardson	763,200	On-going
371	HKBU 2036/00M	Mechanistic Actions of Antiviral Compounds Isolated from the Chinese Herbs Banlangen	Dr Nai Ki Mak	633,200	On-going
372	HKBU 2049/00M	Using Trees to Clean-up Contaminated Land: The Influences of Soil Processes Mediated by Earthworms and Mycorrhizae on Heavy Metal Bioavailability	Prof Ming Hung Wong	763,200	On-going
373	HKBU 2052/00M	Soil Drying in Relation to the Remobilization of Carbon Reserve during Grain-filling Period of Rice and Wheat	Dr Jianhua Zhang	686,550	On-going
374	HKBU 2053/00M	Chemical Neuroanatomy of Neurons in the Rat Neostriatum. GABAA and GABAB Receptors in Distinct Neuronal Subpopulations and their Subsynaptic Arrangements in Striatal Synapses	Dr Ken K L Yung	675,600	On-going
375	HKBU 2054/00M	Remediation of Organochlorine-pesticides-contaminated Freshwater Sediments Using Livestock Manure	Dr Dingyi Ye	723,248	On-going
376	CUHK 4237/00M	Hypolipidemic and Antioxidant Activity of Theaflavins and Thearubigins from Oolong and Black Tea	Prof Zhen Yu Chen	763,200	On-going
377	CUHK 4241/00M	Identification of Peroxisome Proliferator-activated Receptor-alpha (PPARalpha)-dependent Genes Involved in Hepatic Lipid Metabolism	Prof Susanna Sau Tuen Lee	830,000	On-going
378	CUHK 4243/00M	Structure-function of a Novel RNA-binding Motif-structure Determination of a Ribosomal Protein L30e From <i>Thermococcus celer</i> by Multi-dimensional NMR Spectroscopy	Prof Kam Bo Wong	1,015,200	On-going
379	CUHK 4250/00M	Revegetation of Newly Restored Landfills: Site Environmental Conditions and the Role of Native Species	Prof Lee Man Chu	650,000	On-going
380	CUHK 4252/00M	Modulation of Gill Na ⁺ -K ⁺ -ATPase Expression by Salinity and Hormonal Factors in the Sea Bream, <i>Sparus sarba</i>	Prof Ying Shiu Norman Woo	679,200	On-going
381	CUHK 4254/00M	Isolation, Characterization, and Molecular Cloning of the Androgenic Hormone of the Mud Crab <i>Scylla</i> spp.: Development of Monosex Crab Aquaculture	Prof Ka Hou Chu	763,200	On-going
382	CUHK 4260/00M	An Investigation of the Physiological Functions of Different Laccase Components Produced by the Edible Mushroom, <i>Pleurotus Sajor-caju</i>	Prof John Anthony Buswell	763,200	On-going
383	CUHK 4261/00M	Testing Equivalence in Paired-Sample Design: An Exact Unconditional Approach	Prof Ping Shing Ben Chan	525,000	On-going
384	CUHK 4263/00M	Sink-Source Relationship During Seed Development in <i>Arabidopsis thaliana</i> - Molecular Regulation of Aspartate Family Amino Acids	Prof Hon Ming Lam	1,062,600	On-going
385	PolyU 5202/00M	Biochemical Characterization of Plant Nitric Oxide Synthase	Dr Chun Lap Samuel Lo	763,200	On-going

Appendix M: Continued

Biology & Medicine

	Project No.	Project Title	Principal Investigator	Awarded (HK\$)	Status
386	PolyU 5205/00M	Optimization of Microbial Synthesis of Polyhydroxyalkanoates (PHA) in Recombinant Bacteria Utilizing Industrial Food Wastes	Dr Peter Hoi Fu Yu	600,000	On-going
387	HKUST 6098/00M	Molecular Genetic And Biochemical Studies Of SED5, SFT1, YKT6 And SFT2 Four Interacting Genes Whose Products Are Involved In Transport Through The Yeast Golgi	Dr David K Banfield	805,200	On-going
388	HKUST 6102/00M	Metabolism Of Paralytic Shellfish Poisoning Toxins In Mammalian Systems	Prof Dennis P H Hsieh	560,400	On-going
389	HKUST 6103/00M	Functional Roles Of G Protein Signaling At The Neuromuscular Junction	Prof Nancy Y Y Ip	1,062,600	On-going
390	HKUST 6105/00M	The Production And Function Of UV-light Activated Cinnamic Acid Isomer In Higher Plants	Dr Ning Li	679,200	On-going
391	HKUST 6106/00M	Functional Analysis Of The Role Of Tumor Suppressor Genes In Esophageal Cancers	Prof Maria Li Lung	941,850	On-going
392	HKUST 6108/00M	Dietary Uptake Of Major Metal Contaminants In Fishes Of Hong Kong Coastal Waters	Dr I Hsun Ni	679,200	On-going
393	HKUST 6112/00M	Probing The Role Of P2Y1 Purinoceptor In The Formation Of The Neuromuscular Junctions	Dr Karl W K Tsim	650,000	On-going
394	HKUST 6113/00M	Geochemical And Physiological Controls Of Metal Bioavailability From Contaminated Sediments In Marine Benthic Invertebrates	Dr Wenxiong Wang	726,400	On-going
395	HKUST 6115/00M	Regulation Of The c-jun N-terminal Kinase By Opioid Receptors	Dr Yung Hou Wong	763,200	On-going
396	HKUST 6161/00M	Ultra-sensitive Determination Of Cyanide In Coral Reef Fishes	Prof Reinhard Renneberg	715,200	On-going
397	HKUST 6195/00M	C42-A Novel Neuronal Cyclin-dependent Kinase 5 Activator-binding Protein	Prof Jerry H C Wang	1,044,000	On-going
398	HKUST 6196/00M	Structural Elucidation Of 13C- And 15N- Doubly Labelled Transfer RNA For Tryptophan By Multidimensional NMR	Prof Jeffrey T F Wong	1,156,800	On-going
399	HKUST 6197/00M	A Search For Human Epithelial Cell Receptors Recognizing The Structural PilS Protein, And The Pilus-tip PilV Proteins, of The Salmonella Typhi Type IV Pili	Dr James A Hackett	763,200	On-going
400	HKUST 6203/00M	Identificaton Of Proteins For Initiation Of DNA Replication In Saccharomyces Cerevisiae Using Novel Genetic Screening Strategies	Dr Chun Liang	954,000	On-going
401	HKUST 6205/00M	Transcriptional Regulation Of Myogenin During Myogenesis By P38 Map Kinase And Insulin-like Growth Factors	Dr Zhenguo Wu	763,200	On-going
402	HKUST6206/00M	Human Tryptophanyl-tRNA Synthetase: Properties And TRNA Trp Recognition	Dr Hong Xue	763,200	On-going
403	HKUST 6207/00M	Cytoplasmic Dynein Light Chains As Target Adaptors Of The Motor Complex: A Structural And Functional Study	Dr Mingjie Zhang	1,490,400	On-going
404	HKUST 6208/00M	Structure Characterization Of Neurogranin And Its Complex With Ca ⁺⁺ -Free Calmodulin By High Resolution NMR	Dr Guang Zhu	1,490,400	On-going
405	HKU 7227/00M	Defining molecular mechanisms underlying growth plate abnormalities in Schmid metaphyseal chondrodysplasia by targeted mutagenesis in mice	Dr Danny Chan	650,000	On-going
406	HKU 7229/00M	The study of shrimp CHH/MIH/GIH gene family: gene structure, expression and biological assay of recombinant neuropeptides	Dr Siu Ming Chan	763,200	On-going

Appendix M: Continued

Biology & Medicine

	Project No.	Project Title	Principal Investigator	Awarded (HK\$)	Status
407	HKU 7232/00M	Functional analysis of Arabidopsis acyl-CoA binding proteins	Dr Mee Len Chye	1,440,000	On-going
408	HKU 7236/00M	Isolation of overexpressed genes within an amplified region at 1q12-q22 in hepatocellular carcinoma	Dr Xin Yuan Guan	763,200	On-going
409	HKU 7238/00M	Molecular genetic analysis of unconventional myosin 5b (Myo5b): its function and interplay with myosin 5a (Myo5a)	Dr Jian Dong Huang	763,200	On-going
410	HKU 7240/00M	Functional genomics of microbial and mammalian peroxiredoxins	Dr Dong-Yan Jin	691,200	On-going
411	HKU 7242/00M	Molecular basis of MAD1 mitotic checkpoint functions in mammalian cells	Prof Hsiang-fu Kung	1,763,000	On-going
412	HKU 7243/00M	Structural NADP+, subunit interaction and other stability determinants in human glucose-6-phosphate dehydrogenase (G6PD) and deficient variants	Dr Veronica Min Sien Lam	763,200	On-going
413	HKU 7245/00M	Formation and regulation of specialized cell junctions in the testis during spermatogenesis	Dr Will Wai Ming Lee	763,200	On-going
414	HKU 7249/00M	Identification and molecular cloning of infectious bursal disease virus (IBDV) receptors on chicken cells	Dr Boon Leong Lim	1,069,500	On-going
415	HKU 7250/00M	Ethanol regulated gene transcription: identification of "ethanol-responsive-cis-element" in the promoter region of human MTP gene	Dr Marie Chia-Mi Lin	1,097,100	On-going
416	HKU 7252/00M	Defining the role of RET receptor tyrosine kinase in enteric neurogenesis	Dr Vincent Chi Hang Lui	650,000	On-going
417	HKU 7255/00M	Effects of male accessory sex gland secretions on the oxidative stress, functional competence and genomic integrity of hamster spermatozoa	Dr Wai Sum O	650,000	On-going
418	HKU 7261/00M	Population genetics, phylogenetic relationships, and conservation of mangroves	Dr Mei Sun	763,200	On-going
419	HKU 7262/00M	Analysis of the regulation of dehalogenase IVa gene of Burkholderia cepacia MBA4	Dr Jimmy Siu Hung Tsang	720,000	On-going
420	HKBU 7264/00M	Identification by differential display of hyper- and hypo-tonicity inducible genes in chloride cell and pavement cell from the gill epithelium of Japanese eel, <i>Anguilla japonica</i>	Dr Chris Kong Chu Wong	763,200	On-going
421	HKU 7265/00M	The effect of DNA methylation on codon substitution and codon usage bias	Dr Xuhua Xia	520,180	On-going
422	HKU 7267/00M	Estimating population size for open populations with heterogeneous capture probabilities	Dr Paul Siu Fai Yip	480,000	On-going
Subject Area Total				47,140,528	

Subject Area: Medicine, Dentistry & Health

423	CUHK 4049/00M	Mechanisms of Fluoroquinolone-resistance in Salmonellae in Hong Kong	Prof Mei Lun Julia Ling	631,200	On-going
424	CUHK 4050/00M	A Randomized Trial to Investigate the Ocular-hypertensive Response to Different Dosages of Topical Steroid (0.1% Dexamethasone) in Chinese Children	Prof Shun Chiu Dennis Lam	583,200	On-going
425	CUHK 4051/00M	Neuroprotection of Gouqizi in the Eye	Prof Tim Tak Lam	650,000	Terminated
426	CUHK 4052/00M	Use of Conjunctival-limbal Autografts Versus Intraoperative Application of Mitomycin-C in Treatment of Recurrent Pterygium in Hong Kong	Prof Tai Shing Alfred Leung	872,400	On-going

Appendix M: Continued

Biology & Medicine

	Project No.	Project Title	Principal Investigator	Awarded (HK\$)	Status
427	CUHK 4060/00M	A Randomized Controlled Trial of Strength Training Exercise and Diet in the Management of Obesity in Children	Prof Yn Tz Rita Sung	526,808	On-going
428	CUHK 4064/00M	The Roles of Mast Cells in the Pathogenesis of Aspirin Sensitive Asthma	Prof Alaster Hang Yung Lau	916,800	On-going
429	CUHK 4066/00M	Identification of Brain Areas Involved in Emesis Control in the Ferret	Prof John Anthony Rudd	650,000	On-going
430	CUHK 4069/00M	The Effect of Orlistat and Rosiglitazone on Insulin Action in a group of Chinese Patients Affected by the Metabolic Syndrome - A Randomized, Single-blinded and Placebo-controlled Study	Prof Kenneth Kwing Chin Lee	811,200	On-going
431	CUHK 4070/00M	Functional Studies of a Novel Epididymis-specific Gene, Bin-1b: Role in Epididymal Host Defense and Male Fertility	Prof Hsiao Chang Chan	731,400	On-going
432	CUHK 4075/00M	Association between Pancreatic Angiotensin System and Pancreatic Blood Flow and Ductal Secretion: The Significance of Changes by Chronic Hypoxia in the Rat Pancreas	Prof Po Sing Leung	763,200	On-going
433	CUHK 4079/00M	Protein Kinase G-sensitive Ca ²⁺ Influx in Endothelial Cells and Its Role in Vasoregulation	Prof Xiao Qiang Yao	787,200	On-going
434	CUHK 4080/00M	Analysis of GABAergic Neurotransmission in Rat Globus Pallidus: Correlation of Electrophysiology with Ultrastructural Immunocytochemistry	Prof Wing Ho Yung	650,000	On-going
435	CUHK 4082/00M	A Study of the Neurobiological Correlates of Behavioural and Psychological Symptoms in Alzheimer's Disease	Prof Linda Chiu Wa Lam	650,000	On-going
436	CUHK 4084/00M	A Multi-centered Randomized Controlled Trial Comparing Standard Oesophagectomy Versus Primary Chemo-irradiation without Surgery as the Treatment for Squamous Oesophageal Cancer	Prof Angus Chi Wai Chan	960,280	On-going
437	CUHK 4091/00M	Novel Strategies for the Treatment of Vein Graft Failure: Investigations Using a Porcine Model	Prof Anthony Ping Chuen Yim	821,100	On-going
438	CUHK 4095/00M	Molecular Biology of Hypertension: A Study Investigating Genetic Markers and Possible Underlying Pathogenic Mechanisms of Hypertension in Chinese	Prof Brian Tomlinson	986,400	On-going
439	CUHK 4097/00M	Development of a Rapid in vitro Drug Susceptibility Test Method for Mycobacterium Tuberculosis Using Metabolic Markers	Prof Chiu Yeung Chan	682,000	On-going
440	CUHK 4098/00M	A Survey of Drug-resistance Genes in Clinical Isolates of Mycobacterium Tuberculosis and Its Direct Application to the Detection of Drug-resistant M. Tuberculosis in Clinical Specimens	Prof Augustine Fun Bun Cheng	763,200	On-going
441	CUHK 4104/00M	Turbo Spectroscopic Imaging Evaluation of Dose-response Relationship in Irradiated Normal Brain Tissue after Arteriovenous Malformation Radiosurgery	Prof Yu Leung Chan	606,000	On-going
442	CUHK 4109/00M	A Double-blind Placebo-control Randomized Study of the Efficacy of Chinese Herbal Medicine in Reduction of Cytotoxic Chemotherapy-induced Toxicity	Prof Tony Shu Kam Mok	1,041,600	On-going
443	CUHK 4112/00M	Adenocarcinoma of the Lung in Hong Kong Chinese Females: A Genome Investigation for Underlying Genetic Alterations	Prof Philip James Johnson	811,000	On-going
444	CUHK 4116/00M	Characterization of Differentially Expressed Genes during Terminal Differentiation of Cardiomyocytes	Prof Stephen Kwok Wing Tsui	650,000	On-going
445	CUHK 4125/00M	Cloning, Sequencing and Biological Characterization of An Immunomodulatory Fungal Protein	Prof Ken Wing Keung Liu	660,000	On-going

Appendix M: Continued

Biology & Medicine

	Project No.	Project Title	Principal Investigator	Awarded (HK\$)	Status
446	CUHK 4131/00M	An Expression and Functional Study of a Prostatic Secretory Protein of 94 Amino Acids in Normal and Neoplastic Rat Prostate Glands	Prof Franky Leung Chan	650,000	On-going
447	CUHK 4132/00M	The Roles of Chondroitin Sulfate Proteoglycans on Axon Growth at the Mouse Chiasm	Prof Hector Sun On Chan	650,000	On-going
448	CUHK 4134/00M	Evaluation of Two Traditional Chinese Medicine Formulations for the Treatment of the Metabolic Syndrome Regarding Cardiovascular Function and Insulin Sensitivity	Prof Lester Arthur Hall Critchley	1,075,200	On-going
449	CUHK 4137/00M	Effects of Oxygen Toxicity on Megakaryocytopoiesis and Thrombopoitin Production in Neonates - A Rat Model	Prof Patrick Man Pan Yuen	690,000	On-going
450	CUHK 4140/00M	Can Exogenous Vascular Endothelial Growth Factor (VEGF) Enhance Angiogenesis and Osteogenesis in Posterior Spinal Fusion?	Prof Jack Chun Yiu Cheng	763,200	On-going
451	CUHK 4142/00M	Towards Understanding the Molecular Events of Histogenesis and Biological Behaviour of Giant Cell Tumour of Bone - The Significance of Urokinase Type Plasminogen Activating System and Osteoclast Regulatory Factors	Prof Shekhar Madhukar Kumta	584,000	On-going
452	CUHK 4147/00M	The Effects of Nasal Continuous Positive Airway Pressure on Platelet Activation, Fibrinolysis and Activities of the Sympathetic Nervous System and Renal Kallikrein-kinin System in Obstructive Sleep Apnoea	Prof David Shu Cheong Hui	815,000	On-going
453	CUHK 4153/00M	Evaluation and Characterization of a New Composite Biocompatible Skin Graft Incorporated on the Noedermis of Integra in Experimental Burn Wounds	Prof Choong Tsek Liew	800,400	On-going
454	CUHK 4154/00M	Comprehensive Study of Nasopharyngeal Carcinoma Genome	Dr Kwok Wai Lo	823,200	On-going
455	CUHK 4162/00M	Effects of Phytoestrogens on Calcium Metabolism in Chinese Postmenopausal Women	Prof Suzanne Chan Sut Ying Ho	1,200,000	On-going
456	PolyU 5217/00M	The Effect of Weight of School Bag on Subjects with Adolescent Idiopathic Scoliosis: A Biomechanical and Physiological Study	Dr Daniel Hung Kay Chow	880,600	On-going
457	HKUST 6052/00M	Early Detection Of Nasopharyngeal Cancer By Fluorescence Endoscopy	Dr Jianan Qu	1,173,000	On-going
458	HKU 7248/00M	Body mass index, adiposity, serum leptin and insulin sensitivity in Chinese and Caucasians: a comparative study	Dr Edmund Tsze Shing Li	937,200	On-going
459	HKU 7272/00M	Transmission of tuberculosis in Hong Kong using both molecular and conventional epidemiological methods	Prof Moira Mo Wah Chan	666,610	On-going
460	HKU 7273/00M	Mechanism of plastic changes in vestibulo-cardiovascular interaction following prolonged otolith stimulation	Prof Ying Shing Chan	1,036,800	On-going
461	HKU 7275/00M	Functional analysis of the morphogenetic role of type IIA procollagen during mouse development by conditional tissue-specific gene inactivation	Prof Kathryn Song Eng Cheah	1,766,400	On-going
462	HKU 7276/00M	Identification and characterization of cellular targets for adenovirus E4Orf6 protein	Dr Nancie Nien Tsy Chen	763,200	On-going
463	HKU 7281/00M	Differential expression of genes in gestational trophoblastic diseases	Dr Annie Nga Yin Cheung	731,400	On-going
464	HKU 7282/00M	The role of adrenomedullin in inflammation	Dr Bernard Man Yung Cheung	763,200	On-going
465	HKU 7283/00M	Gradual scoliosis correction by use of a superelastic alloy	Dr Kenneth Man Chee Cheung	650,000	On-going

Appendix M: Continued

Biology & Medicine

	Project No.	Project Title	Principal Investigator	Awarded (HK\$)	Status
466	HKU 7290/00M	Development of noval artificial finger joints	Prof Shew Ping Chow	895,200	On-going
467	HKU 7294/00M	Role of endothelial and astrocytic ET-1 in the pathogenesis of diabetic retinopathy, a major cause of blindness in man	Dr Sookja Kim Chung	1,097,100	On-going
468	HKU 7295/00M	Aldose reductase in diabetic complications	Dr Stephen Sum Man Chung	763,200	On-going
469	HKU 7296/00M	Right-sided hepatectomy for hepatocellular carcinoma by anterior approach - a prospective randomized trial	Prof Sheung Tat Fan	905,940	On-going
470	HKU 7298/00M	Public perception and health: what value do people give to health and to features of modern life which affect it?	Dr Richard Fielding	650,000	On-going
471	HKU 7301/00M	Evolution of the lymphocyte surface: identification and characterization of duck T cell xenoantigens	Dr David Anthony Higgins	763,200	On-going
472	HKU 7303/00M	Estrogenic modulation of human catecholamine-O-methyltransferase (COMT): its relevance in Parkinson's disease (PD)	Dr Shu Leong Ho	655,200	On-going
473	HKU 7305/00M	Molecular control of Inositol 1,4,5-triphosphate receptors (IP3R) in cellular models of Alzheimer's disease	Prof Jacques Hugon	763,200	On-going
474	HKU 7307/00M	Study of the mechanisms of vascular homeostasis in obstructive sleep apnoea	Prof Mary Sau Man Ip	696,000	On-going
475	HKU 7310/00M	Molecular mechanism of bacteria-host interactions in periodontal diseases-biological, pathological and clinical implications	Dr Li Jian Jin	1,028,100	On-going
476	HKU 7323/00M	Role of macrophage migration inhibitory factor (MIF) in renal allograft rejection	Dr Hui Yao Lan	835,200	On-going
477	HKU 7324/00M	Placental apoptotic and proliferative activities and infant outcome in complicated pregnancies - the relationship with insulin-like growth factor-I, insulin-like growth factor binding proteins, and placental insulin-like growth factor expression	Dr Terence Tzu Hsi Lao	763,200	On-going
478	HKU 7325/00M	Role of nitric oxide synthase and cyclooxygenase2 in angiogenesis after acute myocardial infarction - therapeutic implication by L-arginine	Prof Chu Pak Lau	800,400	On-going
479	HKU 7327/00M	The effect of embryos on the gene expression of mouse oviduct in the preimplantation period	Dr Calvin Kai Fai Lee	763,200	On-going
480	HKU 7329/00M	Mechanism of IgA-induced glomerular and tubulointerstitial injury: role of macrophage migration inhibitory factor (MIF)	Mr Joseph Chi Kam Leung	800,400	On-going
481	HKU 7330/00M	Genetic instability in early onset colorectal cancer in Hong Kong Chinese	Dr Suet Yi Leung	835,200	On-going
482	HKU 7331/00M	The significance of post-treatment maintenance care and its rational prescription to patients with advanced periodontal disease in Hong Kong	Dr Wai Keung Leung	496,800	On-going
483	HKU 7338/00M	Air pollutants and nasal congestion	Dr Mary Agnes Kin Yum Lung	763,200	On-going
484	HKU 7340/00M	Cyclooxygenase-2 in inflammatory and fibrotic liver disease	Prof Amin Akbarali Nanji	1,363,900	On-going
485	HKU 7341/00M	Understanding impaired implantation in IVF cycles with high serum oestradiol levels	Dr Ernest Hung Yu Ng	629,200	On-going
486	HKU 7342/00M	Detection of genetic alterations on chromosome 8 in liver cancer by high-throughput fluorescent in-situ hybridization on tissue microarrays and by deletion mapping	Dr Irene Oi Lin Ng	763,200	On-going

Appendix M: Continued

Biology & Medicine

	Project No.	Project Title	Principal Investigator	Awarded (HK\$)	Status
487	HKU 7343/00M	EBV as targets of immune intervention of NPC	Prof Mun Hon Ng	1,036,800	On-going
488	HKU 7346/00M	Regulation of monocyte chemoattractant protein-1 (MCP-1) expression in atherosclerosis	Dr Karmin O	763,200	On-going
489	HKU 7352/00M	Studying the roles of endophilins, a family of SH3 domain containing proteins, in mouse development by gene targeting	Dr Mai Har Sham	650,000	On-going
490	HKU 7355/00M	Post-traumatic axonal regeneration in glycosaminoglycan-modified spinal cord environments	Dr Daisy Kwok Yan Shum	763,200	On-going
491	HKU 7356/00M	Probing the mechanisms of magnesium tanshinoate B: inhibition on stress-activated protein kinase cascade in the ischaemic/reperfused heart	Dr Yaw Loong Siow	763,200	On-going
492	HKU 7358/00M	Multiple molecular approaches for elucidating the multigenic nature of hirschsprung's disease in Chinese patients	Prof Paul Kwong Hang Tam	835,200	On-going
493	HKU 7364/00M	The effects of Helicobacter pylori products on human respiratory mucosa in vitro	Dr Kenneth Wah Tak Tsang	763,200	On-going
494	HKU 7376/00M	Ca ²⁺ and contractile responses to k-opioid receptor stimulation in the heart following chronic hypoxia - signaling mechanisms and receptor function	Prof Tak Ming Wong	763,200	On-going
495	HKU 7378/00M	The role of androgens in breast carcinogenesis	Prof Yong Chuan Wong	650,000	On-going
496	HKU 7380/00M	B cell apoptosis in systemic lupus erythematosus	Dr Adrian Young-Yuen Wu	650,000	On-going
497	HKU 7381/00M	Effect of delayed transplantation of a peripheral nerve (PN) graft on motoneuron survival and regeneration after spinal root avulsion	Dr Wutian Wu	763,200	On-going
498	HKU 7382/00M	The role of osmotic response element binding protein in osmoregulation	Dr Yinqing Yang	800,400	On-going
499	HKU 7388/00M	The identification and characterization of Aspergillus fumigatus antigen(s) for the rapid diagnosis of invasive aspergillosis	Prof Kwok Yung Yuen	763,200	On-going
500	HKU 7392/00M	Airway remodeling in bronchiectasis: the role of matrix metalloproteinases (MMP8, MMP9) and neutrophil elastase	Dr Ling Zheng	725,490	On-going
501	HKU 7400/00M	The role of epidermal cooling in improving the outcome of laser therapy in the treatment of Nevus of Ota	Dr Henry Hin Lee Chan	650,000	On-going
Subject Area Total				62,995,728	
Grand Total				110,136,256	

Appendix M: Continued

Humanities, Social Sciences & Business Studies

	Project No.	Project Title	Principal Investigator	Awarded (HK\$)	Status
	Subject Area: Administrative, Business & Social Studies				
502	CityU 1011/00H	Global Benchmarking of Hong Kong Manufacturing Industry	Dr Hongyi Sun	407,817	On-going
503	CityU 1152/00H	The Impact of Internet in Hong Kong and Mainland China: A Longitudinal and Comparative Study	Dr Jonathan Jian Hua Zhu	902,817	On-going
504	CityU 1153/00H	Strategy, Management and Performance of Hotels in China	Dr Yanni Yan	536,817	On-going
505	CityU 1159/00H	Ranking of Membership Likelihood in Discriminant Analysis	Dr Bruce Kim Fung Lam	395,817	On-going
506	CityU 1167/00H	Effect of Strategic Alliances on the Productivity, Pricing, and Profitability of Participating Firms	Dr Jong Hun Park	473,817	Terminated
507	CityU 1168/00H	Volume, Frequency, Size of Trade and Macroeconomic Announcements: An Intraday Analysis	Dr Jun Cai	343,817	On-going
508	CityU 1185/00H	Testable Implications of Game Theory	Prof Lin Zhou	426,400	On-going
509	CityU 1192/00H	Optimal Preventive Maintenance and Replacement Policies for A Two-unit Series Utility System	Prof Kin Keung Lai	435,817	On-going
510	CityU 1200/00H	Impacts of Group Decision Support Systems: A Process-oriented Approach	Dr Moez Limayem	277,817	On-going
511	CityU 1213/00H	Litigation Risk and Audit Fees: Evidence from Hong Kong, Australian, and UK Firms Cross-listed on U.S. Exchanges	Dr Ananth Seetharaman	312,817	Terminated
512	CityU 1224/00H	An Investigation of the Effects of Earnings Management in China	Dr Bin Srinidhi	437,817	On-going
513	CityU 1235/00H	WTO Accession and Negotiations: Economic Theory and Case Studies	Dr Edwin Lun Cheung Lai	257,817	On-going
514	HKBU 2012/00H	Village Elections, Citizenship, and Democratic Prospects in China	Dr LianJiang Li	807,817	On-going
515	HKBU 2013/00H	The Destatization of State Enterprises and Changing Labor Politics in China	Dr Feng Chen	487,817	On-going
516	HKBU 2018/00H	Modelling Multi-Faceted Activity and Travel Choices: Extending and Validating the Stated Preference Approach	Dr Donggen Wang	463,817	On-going
517	HKBU 2022/00H	Online News Media as Digital Marketplace: Tracking Their Path of Development in the New Millennium	Dr Alice Y L Lee	500,817	On-going
518	HKU 2048/00H	Economic Fluctuations with Endogenous Growth: Theory and Evidence (with Particular Emphasis on Hong Kong and other NICs)	Dr Sau Him Paul Lau	403,817	On-going
519	HKBU 2069/00H	Evaluating the Margin Setting Methodology in a Futures Market	Prof Kin Lam	438,817	On-going
520	LU 3008/00H	The "Bubble Economy", Land Rent, and Fiscal Policy in Hong Kong	Prof Lok Sang Ho	403,817	On-going
521	CUHK 4001/00H	Professionalism and Service Quality in Hospitality and Tourism	Prof Ching Yick Eliza Tse	467,817	On-going
522	CUHK 4006/00H	The Effects of Clients' Corporate Governance and Management Integrity on Audit Qualifications: An Empirical Study in Hong Kong	Prof Chee Keung Kevin Lam	222,634	On-going
523	CUHK 4011/00H	Organizational Forms of Audit Firms - A Game Theoretic Analysis	Prof Stephen Yiu Wah Chiu	225,817	On-going
524	CityU 4015/00H	Duty Drawbacks versus Currency Devaluation: Assessment of Policies on China's Export Competitiveness	Prof Eden S H Yu	463,817	On-going
525	CUHK 4018/00H	Examining the Implications of Portfolio Theory for Trading Volume: A Latent Variable Approach	Prof Joseph W Cheng	457,817	On-going
526	LU 4019/00H	The Impact of US Monetary Policy on Asian and Latin American Stock Markets	Prof Daniel Wai Wah Cheung	247,817	On-going

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Humanities, Social Sciences & Business Studies

	Project No.	Project Title	Principal Investigator	Awarded (HK\$)	Status
527	CUHK 4021/00H	Internal Capital Market Misallocation and Inefficient External Capital Market - Evidence from Red Chip Companies	Prof Jia He	563,817	On-going
528	CUHK 4023/00H	Weak Moments in the Efficient Methods of Moments	Prof Ming Liu	423,817	On-going
529	CUHK 4024/00H	A Study on Share Repurchases in Hong Kong	Prof Hua Zhang	433,817	On-going
530	CUHK 4026/00H	Cross-Cultural Differences in Group Member Expectations and Outcomes	Prof Chun Hui	467,817	On-going
531	CUHK 4030/00H	The Impact of Empowerment on Employee and Customer Satisfaction: A Comparison between Service Organisations in PRC, Hong Kong and North America	Prof Michael K Hui	307,817	On-going
532	CUHK 4031/00H	Consumer Preference Uncertainty: Effect of Attribute Conflict in Judgement and Choice	Prof Jianmin Jia	548,817	On-going
533	CUHK 4032/00H	Service Quality and the Congruency of Employee Perceptions and Customer Perceptions	Prof Gordon Wai Hung Cheung	207,817	On-going
534	CUHK 4038/00H	Development, Validation, and Application of an EQ Model in the Work Place	Prof Chi Sum Wong	717,817	On-going
535	CUHK 4329/00H	Volatility and Dynamics of Property Prices	Prof Charles Ka Yui Leung	407,817	On-going
536	CUHK 4330/00H	Prospective Memory in Patients with Schizophrenia and Its Relationship with Retrospective Memory, Executive Functions, and Daily-life Adjustment	Prof Jin Pang Leung	527,817	On-going
537	CUHK 4331/00H	Social and Political Change in a Period of Reform and Readjustment: Indicators of Social Development in Hong Kong 2001	Prof Siu Kai Lau	1,505,817	On-going
538	CUHK 4332/00H	Re-examining the Role of Parts in Object Recognition	Prof William Hayward	509,817	On-going
539	CUHK 4333/00H	Universal and Indigenous Dimensions of the Chinese Personality Assessment Inventory (CPAI)	Prof Fanny M Cheung	930,817	On-going
540	CUHK 4338/00H	The Nature of Subliminal Perception	Prof Tin Cheung Chan	579,817	On-going
541	CUHK 4344/00H	Assessing the Role of Foreign Television in Hong Kong: Local Culture and Global Identity	Prof Siu Nam Paul Lee	607,817	On-going
542	CUHK 4347/00H	Shaping Political Localism in Reform China	Prof Guoguang Wu	457,817	On-going
543	CUHK 4351/00H	Citizenship and Social Development in Post-Colonial Hong Kong	Prof Kenneth K L Chau	686,317	On-going
544	CUHK 4354/00H	The Politics of Listing Chinese State Enterprises on Hong Kong	Prof Shu Yun Ma	202,817	On-going
545	CUHK 4356/00H	Influence Diagnostics for Statistical Models with Missing Data and Their Applications to Models with Latent Variables	Prof Sik Yum Lee	417,817	On-going
546	CUHK 4357/00H	Transitional Dynamics in Monetary Endogenous Growth Models: Theory and Evidence	Prof Chong Kee Yip	207,500	On-going
547	CUHK 4359/00H	Learning, Electoral Behaviour, and Democratization in Hong Kong	Prof Hsin Chi Kuan	657,817	On-going
548	CUHK 4362/00H	Analysis and Development of Measurement-Based Geographic Information System	Prof Yee Leung	855,817	On-going
549	CUHK 4367/00H	Experiences and Adjustment of Young New Arrivals from Mainland China: A Narrative Analysis	Prof Mong Chow Lam	407,817	On-going
550	CUHK 4369/00H	Estimating of and Testing for a Break in the Differencing Parameter	Prof Tai Leung Chong	387,817	On-going

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Humanities, Social Sciences & Business Studies

	Project No.	Project Title	Principal Investigator	Awarded (HK\$)	Status
551	CUHK 4370/00H	The Role of the Foreign Trade Sector in the Chinese Economy: Simulations from Two Bilaterally Linked Econometric Models for China and Hong Kong	Prof Win Lin Chou	313,817	On-going
552	CUHK 4374/00H	Comparing the New Public Management Reforms in Hong Kong and Singapore	Prof Eliza Wing Yee Lee	407,817	On-going
553	CUHK 4376/00H	Chinese Families' Experiences with Residential Care Placement of their Elderly Relatives	Prof Diana Tze Fan Lee	358,317	On-going
554	CUHK 4380/00H	Attitudes toward and Cultural Meanings of Suicide in Contemporary Chinese Society	Prof Sing Lee	907,817	On-going
555	PolyU 5223/00H	Development of Financial Distress Evaluation Model for Unlisted State Enterprises in Mainland China	Dr Gongmeng Chen	453,817	On-going
556	PolyU 5224/00H	The Liquidity Effects of Open Market Share Repurchases: Evidence from Hong Kong's Equity Market	Dr Dennis Chung	227,817	On-going
557	PolyU 5233/00H	Ownership Structure and Income Smoothing: Evidence from Hong Kong, Korea, and Japan	Dr Cheong Heon Yi	329,817	On-going
558	PolyU 5236/00H	The Effects of Inter-Category Market Dynamics on New Product Launch: Implications for International Markets	Dr Namwoon Kim	437,817	On-going
559	PolyU 5241/00H	A Mythological Approach to Analysing Customer Perceptions of Restaurant Service Experiences in Hong Kong SAR	Dr Jaksu Kivela	347,817	On-going
560	PolyU 5242/00H	A Decision Rules Based Forecasting Model for Tourism Demand in Hong Kong	Dr Roberts Chun Hung Law	411,817	On-going
561	PolyU 5249/00H	The Effect of Employee Stock Ownership Plan on Employees Job Attitudes and Organizational Performance: A Longitudinal Study Among State Owned Enterprises in People Republic of China	Dr Warren Chi Kwan Chiu	633,817	On-going
562	PolyU 5252/00H	Homegrown Chinese Entrepreneurs and Abroad-breed Chinese Entrepreneurs - Are Their Venture Success Context Dependence or Behavioural Laden?	Dr Theresa Lau	297,817	On-going
563	PolyU 5257/00H	Towards a Methodology for the Ethical Analysis of Treatment-limiting Decisions in End of Life Care	Dr Samantha Mei Che Pang	693,817	On-going
564	HKUST 6003/00H	Migration And Replacement In Low Fertility Population	Dr Jow Ching Tu	587,817	On-going
565	HKUST 6005/00H	Post-1997 Intergroup Contact In Hong Kong: The Role Of Need For Affective Closure In Intergroup Experiences	Dr Ying Yi Hong	798,897	On-going
566	HKUST 6006/00H	The Regionalization Of Innovation In Southeast Asia: Multinational Strategies And Host-state Influences	Dr Greg B Felker	377,793	On-going
567	HKUST 6007/00H	Social Capital And Competitive Advantage: A Study Of Chinese Firms	Dr Yanjie Bian	1,108,817	On-going
568	HKUST 6008/00H	Charter Values And The Structure Of Bank Subordinated Debt Contracts	Dr Vidhan K Goyal	481,817	On-going
569	HKUST 6010/00H	International Portfolio Allocation During Asian Financial Crisis: Evidence From The U.S. Closed-end Fund	Dr Ka Lok Chan	453,817	On-going
570	HKUST 6011/00H	Central Clearing And Ex-dividend Date Effect	Dr Chuan Yang Hwang	403,817	On-going
571	HKUST 6019/00H	The Impact Of "Mobile Number Portability" On Consumer Welfare: The Case Of The Mobile Phone Industry In Hong Kong	Dr Jeongwen Chiang	706,817	On-going
572	HKUST 6020/00H	The Effects Of Framing Product Bundles	Dr Anaimalai V Muthukrishnan	453,817	On-going

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Humanities, Social Sciences & Business Studies

	Project No.	Project Title	Principal Investigator	Awarded (HK\$)	Status
573	HKUST 6021/00H	Consumer Debt And Financing Decisions	Dr Dilip Y Soman	454,317	On-going
574	HKUST 6022/00H	The Influence Of Culture, Situations And Values On Intrapersonal And Interpersonal Decisions	Dr Donnel A Briley	699,817	On-going
575	HKUST 6023/00H	Segment Reporting By Hong Kong Listed Companies: Current Practices And Management Motives	Dr Peter F Chen	307,817	On-going
576	HKUST 6024/00H	The Impact Of Improved Auditor Independence On Audit Market Concentration In China	Dr Tak-jun Wong	417,317	On-going
577	HKUST 6025/00H	Effect Of Ambiguity On Tax Compliance: An Experimental Assessment	Dr Chung Kweon Kim	317,017	On-going
578	HKUST 6026/00H	Who Benefits More From Eva:shareholders Or Executives?	Prof Gary C Biddle	453,817	On-going
579	HKUST 6029/00H	Does The CEO Bear A Cost From Missing An Earnings Target?	Dr Chul Won Park	433,817	On-going
580	HKUST 6033/00H	Monetary Policy And Adjustment Of Corporate Liquid Assets And Inventories	Dr Woon Gyu Choi	350,817	On-going
581	HKUST 6034/00H	The Role Of International Portfolio Holdings In The Propagation Of Shocks Across Countries, And The Benefits From Financial Integration	Dr Timothy K H Chue	403,817	On-going
582	HKUST 6167/00H	Toward A Regulatory State? State-rebuilding In Transitional China	Dr Xueliang Ding	441,817	On-going
583	HKUST 6168/00H	Innovation Processes In A Knowledge Intensive Service Industry: The Case Of Engineering Consultancy In Hong Kong	Dr Erik Baark	310,817	On-going
584	HKUST 6182/00H	Property Rights And Economic Changes In Rural China	Dr James K S Kung	965,817	On-going
585	HKUST 6211/00H	Efficient Estimation Of The Relation Between Stock Returns And Firm-specific Variables In Large Cross Sections	Dr Chu Zhang	427,817	On-going
586	HKUST 6212/00H	Attacks On The Hong Kong Dollar: Fundamentals, Contagion Effects, Or Institutional Loopholes?	Prof Leonard K H Cheng	412,817	On-going
587	HKUST 6213/00H	Leverage And Business Cycles In The Open Economy	Dr David E Cook	511,817	On-going
588	HKUST 6214/00H	Local Content Requirement And Its Implications For International Trade And Foreign Direct Investment	Dr Larry D Qiu	441,817	On-going
589	HKUST 6215/00H	Electronic Commerce Based On Smart Markets And Software Agents: An Experimental Economics Approach	Dr Paul J Brewer	749,817	On-going
590	HKUST 6216/00H	Framing Reality: A Cognitive Approach To Problem Formulation By Chinese And American Managers	Dr Gary J Katzenstein	430,817	On-going
591	HKUST 6217/00H	Organizational And Environmental Determinants Of Foreign Subsidiary Strategy And Performance	Dr A K Delios	432,817	On-going
592	HKUST 6218/00H	Organizational Culture And Executive Leadership: Their Relationship To Employee Motivation, Commitment And Organizational Performance In The People's Republic Of China	Dr Katherine R Xin	529,817	On-going
593	HKUST 6219/00H	Localization Of Expatriate Positions In The PRC	Dr Kenneth S K Law	672,817	On-going
594	HKUST 6221/00H	Cross-cultural Field Studies Investigating GSS Effectiveness And Barriers To Adoption In Hong Kong And US	Dr Theodore H K Clark	225,817	On-going
595	HKUST 6251/00H	The Measurement Of Crime In Hong Kong : Official Crime Statistics, Crime Victimization Survey, And The Social Cost Of Crime	Dr Siu Fai Leung	407,817	On-going
596	HKU 7135/00H	Expropriation and incentives in team production	Dr Chongen Bai	413,817	On-going

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Humanities, Social Sciences & Business Studies

	Project No.	Project Title	Principal Investigator	Awarded (HK\$)	Status
597	HKU 7136/00H	Homicide in three Chinese cities: Hong Kong, Shenzhen and Beijing	Dr Roderic Girth Broadhurst	853,817	On-going
598	HKU 7137/00H	Optimal reserve commitment for stability of currency board arrangement	Dr Alex Wing Ho Chan	427,817	On-going
599	HKU 7144/00H	Social comparison theory and family caregivers for dementia elders: a longitudinal study	Prof Nelson Wing Sun Chow	568,817	On-going
600	HKU 7153/00H	Asian Chinese families in therapy	Dr Wai Yung Lee	836,817	On-going
601	HKU 7159/00H	Margin requirement and financial market volatility: theory and evidence	Dr Frank Ming Song	318,817	On-going
602	HKU 7162/00H	Technology and competitive advantage transfers to Hong Kong by the regional headquarters of foreign multinational firms	Dr Edmund Roy Thompson	261,817	On-going
603	HKU 7168/00H	Neoliberal institutionalism and China's cooperation with the United States on multilateral institutions in the 1990s	Dr Ken Qingxin Wang	206,817	On-going
604	HKU 7172/00H	The customer satisfaction-loyalty relationship: a re-examination and extension	Dr Bennett Chi Kin Yim	615,317	On-going
Subject Area Total				50,324,990	

Subject Area: Arts & Languages					
605	CityU 1144/00H	Changing Trends and Lasting Norms: Chinese and English Practical Writing in the Context of Bilingual Representation	Mr Sheung Chee Ng	51,6817	On-going
606	CityU 1150/00H	Multiple Tonal Substitutions in Hakka and Tianjin	Prof Matthew Y Chen	758,817	On-going
607	CityU 1169/00H	In Quest of China: Teaching Chinese Civilisation in Hong Kong Universities, 1926 to the Present	Prof Pei Kai Cheng	649,817	On-going
608	CityU 1215/00H	Signalling Nouns in English	Prof John L Flowerdew	474,817	On-going
609	CityU 1234/00H	A Prosodic Investigation of the Syllables and Compounds in Hong Kong Cantonese	Prof Eric Yun Yang Zee	566,817	On-going
610	CityU 1238/00H	Speech to Text Conversion of Court Proceedings: Research on Implementation of Legal Bilingualism in Hong Kong and Jurilinguistic Engineering	Prof Benjamin Ka Yin T'sou	1,187,817	On-going
611	HKBU 2066/00H	The Study on the Acquisition of Chinese by Non-Chinese Speakers	Dr Yue Yuan Huang	547,317	On-going
612	CUHK 4302/00H	A Proposal of the Second Phase of a Complete Study of the Numerous Citations from the Thirteen Classics Found in Pre-Han and Han Traditional Texts	Prof Hung Kan Chan	631,817	On-going
613	CUHK 4303/00H	A Computerized Database of Bronze Inscriptions	Dr Fong Ching Chen	707,817	On-going
614	CUHK 4304/00H	Concept and Practice of Humanities Computing: The Integration of XML into a New Working Model	Prof Tze Wan Kwan	507,817	On-going
615	CUHK 4308/00H	Culture As Destiny? A Study of the Confucian Experiment in Singapore and the Emergent Global Discourse on Confucianism	Prof Yuen Sang Leung	362,817	On-going
616	CUHK 4310/00H	A Study of Barkcloth Beaters in Pearl River Delta, Vietnam and Taiwan from Archaeological Context - An Alternative Cloth Tradition in Southeast Asia	Dr Chung Tang	580,817	On-going
617	CUHK 4311/00H	Norms and the Evolution of Strategy: The Vicissitude of the Ch'ung Military Family in Northern Sung China	Prof Shui Lung Tsang	227,817	On-going

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Humanities, Social Sciences & Business Studies

	Project No.	Project Title	Principal Investigator	Awarded (HK\$)	Status
618	CUHK 4315/00H	Translation and Ideology: A Study of the Translation Activities of the Literary Societies in Modern China, 1919-1949	Prof Lawrence Wang Chi Wong	534,817	On-going
619	CUHK 4319/00H	A Study of Dialects in the New Territories, Hong Kong	Prof Song Hing Chang	361,817	On-going
620	CUHK 4324/00H	Bureaucratic Structure and Social Forces in the Commandery-Prefecture Levels of Han China (220 BC to AD 220): The Studies of the Bamboo Slips and Wooden Documents Found at Juyan Prefecture and Donghai Commandery	Prof Ming Chiu Lai	279,817	On-going
621	PolyU 5270/00H	The Communicative Role of Intonation in Hong Kong English	Dr Martin Warren	673,817	On-going
622	HKUST 6097/00H	Cognates In Sino-tibetan Languages And The Reconstruction Of Proto-sino-tibetan	Prof Pang-hsin Ting	1,107,817	On-going
623	HKU 7174/00H	The study of English in Hong Kong: the international corpus of English project in Hong Kong (HK-ICE)	Mr Kingsley Ronald Bolton	820,817	On-going
624	HKU 7176/00H	The art and visual culture of Hong Kong, China	Dr David James Clarke	417,817	On-going
625	HKU 7182/00H	The mimetic imagination: a comparative study of imitative musical practices in Mindanao (Philippines)	Dr Manolete Mora	681,817	On-going
626	HKU 7186/00H	Maxine Hong Kingston's Broken Book of Life - an intertextual study of The Woman Warrior and China Men	Dr Maureen Alice Sabine	167,817	On-going
627	HKU 7189/00H	The Cantonese opera "Princess Chang Ping" by Tang Disheng.	Prof Bell Yung	412,817	On-going
Subject Area Total				13,180,291	

Subject Area: Education					
628	CUHK 4360/00H	Exploring the Characteristics of Neuromuscular Activity and Movement Kinematics and Kinetics in Tai Chi Exercise	Prof Youlian Hong	806,817	On-going
629	CUHK 4368/00H	External Environment and School Organizational Learning	Prof Y L Jack Lam	507,817	On-going
630	CUHK 4379/00H	Education and Work: The Efficacy of Schooling on Human Resource Development in Three Regions in China	Prof Jin Xiao	1,007,817	On-going
631	CUHK 4381/00H	Effects of Enriched Physical Education Programs on Physical Fitness in Schoolchildren	Prof David Paul Johns	409,817	On-going
632	HKU 7193/00H	The acquisition of the perception of lexical tone contrasts in Cantonese	Dr Valter Ciocca	1,007,817	On-going
633	HKU 7194/00H	An investigation into the impact of school-university partnerships in teacher education in Hong Kong	Dr Jeffrey Richard Day	807,817	On-going
634	HKU 7195/00H	Late talkers in Chinese: a longitudinal study	Prof Paul Jeffrey Fletcher	675,817	On-going
635	HKU 7198/00H	The Chinese pedagogy of mathematics education: an inquiry into its characteristics through international comparisons	Dr Frederick Koon Shing Leung	807,817	On-going
636	HKIED 8002/00H	An intra-cultural comparative study of citizenship education in the Chinese context: the Hong Kong SAR, China, Taiwan and Singapore	Prof Wing On Lee	1,207,817	On-going
Subject Area Total				7,239,353	

Subject Area: Law, Architecture, Town Planning & Other Professional & Vocational Subjects					
637	CityU 1053/00H	Chinese Architecture 1985-2005 — A Study of Its Mechanism, Methodology, Constraints and Prospects	Dr Qiuli Xue	408,817	On-going

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Humanities, Social Sciences & Business Studies

	Project No.	Project Title	Principal Investigator	Awarded (HK\$)	Status
638	CityU 1186/00H	Implications of the WTO Dispute Settlement Mechanism for Mainland China, Hong Kong and Taiwan	Dr John Shijian Mo	257,817	On-going
639	PolyU 5275/00H	Evolving Designs in a Virtual Environment	Prof John Hamilton Frazer	850,817	On-going
640	HKU 7214/00H	Mutual legal assistance between Hong Kong and the mainland	Dr Hualing Fu	407,817	On-going
641	HKU 7219/00H	China's economic transition and land use change	Dr George Chu Sheng Lin	685,817	On-going
642	HKU 7221/00H	Enforcing equal opportunities in Hong Kong: a study of investigation, conciliation, and other enforcement mechanisms	Ms Carole Joan Petersen	781,817	On-going
Subject Area Total				3,392,902	
Grand Total				74,137,536	

Summary of total funds awarded

Panel	Awarded (HK\$)
Engineering	131,784,998
Physical Sciences	52,547,478
Biology & Medicine	110,136,256
Humanities, Social Sciences & Business Studies	74,137,536
Grand Total	368,606,268