

Appendix – PolyU research projects supported by Health and Medical Research Fund

Principal Investigator	Project Title	Amount Awarded (HKD)
Faculty of Engineering		
Dr LEE Timothy Tin-yan Research Assistant Professor of the Department of Biomedical Engineering	Exploring spine flexibility and spinal deformities and their association with curve progression in skeletally immature patients with adolescent idiopathic scoliosis: a three-dimensional ultrasound study	\$724,600
Faculty of Health and Social Sciences		
Prof. SIU Gilman Kit-hang Associate Head, Professor, and Limin Endowed Young Scholar in Medical Laboratory Science of the Department of Health Technology and Informatics	Application of targeted capture sequencing for diagnosis of respiratory infections – simultaneous pathogen identification, antimicrobial resistance gene detection and strain typing in a single reaction	\$1,499,950
Prof. HUANG Chien-ling Associate Professor of the Department of Health Technology and Informatics	Integrated AI-driven single-cell monitoring system for early detection and pathway discovery in infection-associated thrombosis: advancing prevention and treatment strategies for long COVID	\$1,499,000
Prof. LI Tian Assistant Professor of the Department of Health Technology and Informatics	Investigation of time-resolved magnetic resonance fingerprinting (TR-MRF) for liver cancer stereotactic body radiotherapy response assessment in a pilot clinical trial	\$1,459,000
Dr XIONG Qing Research Assistant Professor of the Department of Health Technology and Informatics	Multi-omic investigation of a novel bartonella bacterium identified in human microbiome and originating from dermatophagoides farinae	\$499,994
Dr LEUNG Wan-shun Vincent Associate Professor of Practice of the Department of Health Technology and Informatics	Personalized prediction of acute genitourinary toxicities of prostate stereotactic body radiotherapy: a combined retrospective-prospective study	\$1,180,814
Dr LEE Wing-tung Postdoctoral Fellow of the Department of Health Technology and Informatics	Unveiling the risk of developing cervical cancer in HPV-negatives through vaginal microbiome analysis	\$496,500
Prof. Jed MONTAYRE	Dyadic management intervention in older people with co-occurring	\$1,345,318

Associate Head (Strategy) and Associate Professor of the School of Nursing	cognitive impairment and diabetes as a supplementary approach to chronic diseases self-management program: a hybrid effectiveness implementation study	
Prof. XIE Yaojie Associate Professor of the School of Nursing	Migraine features and silent brain infarction in predicting stroke risk progression: a cohort study with neuroimaging analysis in Hong Kong Chinese women	\$1,499,907
Prof. YEUNG Wing-fai Associate Professor of the School of Nursing	An implementation science approach to evaluate self-administered acupressure for knee osteoarthritis in older-aged adults in the community	\$1,499,989
Prof. YANG Lin Associate Professor of the School of Nursing	A personalized interactive patient empowerment artificial intelligence platform (PIPE-AI) enhanced by DiabetesGPT in prediabetes and diabetes patients in primary healthcare settings	\$500,000
Prof LAM Winsome Yuk-yin Assistant Professor of the School of Nursing	Nurse parental support using a proactive mobile app in symptom management for children with medical complexity requiring mechanical ventilation: an effectiveness-implementation hybrid 2 study	\$1,496,336
Dr Hammada ABU-ODAH Research Assistant Professor of the School of Nursing	Effects of creative arts therapy on body image, self-esteem, anxiety and depression in men with prostate cancer after active treatment: a feasibility randomised controlled trial	\$498,400
Dr MA Chak-fai Dennis Assistant Professor of Practice of the School of Nursing	Effectiveness of a tele-group cognitive behavioural family intervention (tgCBFI) for people with schizophrenia and their families: a mixed-method study	\$1,500,000
Prof. LEUNG Tsz Wing Assistant Professor of the School of Optometry	Investigating the role of the magnocellular-dorsal system in reading Chinese: a pilot study exploring the effect of middle temporal visual area transcranial magnetic stimulation	\$499,550
Prof. WONG Yu-lok Arnold Professor of the Department of Rehabilitation Sciences	Acceptance and commitment therapy plus exercise for older people with chronic low back pain: a pragmatic cluster randomised controlled trial	\$1,314,035

Prof. LIN Jingxia Assistant Professor of the Department of Rehabilitation Sciences	Enhancing clinical care for postpartum depression using ecological momentary assessment and intervention: a feasibility randomized controlled trial with “MotherCare” mobile app	\$499,920
Prof. TSANG Sau-Lan Assistant Professor of the Department of Rehabilitation Sciences	Effects of self-initiated perturbation-based balance training on the postural stability of community-dwelling older adults with an increased risk of falling: a randomised controlled trial	\$498,008
Prof. HUANG Meizhen Assistant Professor of the Department of Rehabilitation Sciences	Effect of high-intensity interval training intervention on post-stroke fatigue in chronic stroke survivors: a pilot randomized clinical trial	\$489,700
Dr ZHANG Jiaqi Research Assistant Professor of the Department of Rehabilitation Sciences	Optimizing the intensity of priming theta burst stimulation to improve hemiparetic upper limb motor functions after stroke: a randomized controlled trial	\$726,600
Dr SHE Rui Research Assistant Professor of the Department of Rehabilitation Sciences	A multi-faceted self-management intervention for improving patient activation and lifestyle behaviour modification among people with cardiometabolic multimorbidity: a pilot randomized controlled trial	\$491,730
Dr LI Ye Research Assistant Professor of the Department of Rehabilitation Sciences	Double-blind, randomized controlled pilot study to assess the effect of pulsed electromagnetic field on inflammatory knee osteoarthritis	\$424,500
Faculty of Humanities		
Prof. NGAI Sing Bik Cindy Associate Professor of the Department of Language Science and Technology	Connecting the dots: examining the impact of risk and protective factors on loneliness types and mental health in Hong Kong’s elderly	\$267,200
Dr WONG Winsy Wing-sze Research Assistant Professor of the Department of Language Science and Technology	Utilization of immersive virtual reality in cognitive stimulation therapy (IVR-CST) for elderly with mild cognitive impairment: a randomized controlled pilot study	\$499,996
Faculty of Science		
Prof. ZHU Yuyan Associate Professor of the Department of Food Science and Nutrition	Investigating the translational potential of parthenolide for ameliorating non-alcoholic fatty liver disease (NAFLD) in obese adults	\$1,499,999