

Appendix - PolyU research projects funded by HMRF in 2022 Exercise

Principal Investigator	Project Title	Amount Awarded (HKD)	
Faculty of Engineering	Faculty of Engineering		
Dr CHEUNG James Chung-wai, Research Assistant Professor of the Department of Biomedical Engineering	Integrated acoustic and carbon nanotube biosensors with deep-learning algorithms for dysphagia screening: a pilot study	\$495,900	
Faculty of Health and Social Sciences			
Dr CHENG King Yip, Associate Professor of the Department of Health Technology and Informatics	Circulating plasmalogens and their metabolism as biomarkers and therapeutic targets for pancreatic β-cell dysfunction in type 2 diabetes	\$1,499,000	
Dr LEE Cheuk Lun, Assistant Professor of the Department of Health Technology and Informatics	Early-pregnancy prediction of preeclampsia using maternal serum levels of sialylated S100 calcium-binding protein A9 and alpha-2 Heremans-Schmid glycoprotein	\$946,888	
Dr LI Hoi Yee, Assistant Professor of the Department of Health Technology and Informatics	Association of TSH and FT4 levels, thyroid dysfunctions, and treatments of hyperthyroidism with incident dementia: a population- based cohort study	\$488,600	
Dr REN Ge, Research Assistant Professor of the Department of Health Technology and Informatics	Investigation of a novel AI-empowered pulmonary perfusion imaging technique based on cone beam computed tomography for functional image-guided adaptive radiotherapy of lung cancer	\$1,500,000	
Prof. SIU Kit Hang, Gilman, Professor of the Department of Health Technology and Informatics	Risk assessment and surveillance of the transmission of foodborne antimicrobial resistance in Hong Kong	\$1,499,500	
Dr WONG Arnold Yu Lok, Associate Professor of the Department of Rehabilitation Sciences	Feasibility, effectiveness, and patient experience of an online acceptance and commitment therapy plus exercises versus online education plus exercises for older people with chronic low back pain: a pilot randomized controlled trial	\$499,530	
Dr WONG Thomson Wailung, Associate Professor of the Department of Rehabilitation Sciences	The efficacy of a specific dance intervention to improve the balance and reduce the risks of falls (SDIIBRF) in	\$892,214	



	older adults: a randomised controlled	
	trial	
Dr XIN Meiqi, Assistant	Understanding professional help-seeking	\$499,512
Professor of the	behaviors for insomnia and the	ψ499,312
Department of	associated factors in the community-	
Rehabilitation Sciences	dwelling older population having	
Renadification Sciences	insomnia symptoms	
Dr XU Huan, Assistant	Estimation of a Valuation Function for	\$500,000
Professor of the	the Health and Self- Management in	\$300,000
Department of	Diabetes Questionnaire in Hong Kong	
Rehabilitation Sciences	Diabetes Questionnaire in Hong Kong	
Dr CHUNG Joyce Oi-	Efficacy of mountain craft training at	\$462,260
kwan, Assistant Professor	improving resilience and psychological	\$402,200
of the School of Nursing	well-being and reducing fatigue in	
of the School of Nursing	childhood cancer survivors: a pilot	
	randomised controlled trial	
Dr KOR Patrick Pui-kin,	Effects of a single-session mindfulness-	\$1,021,000
Assistant Professor of the	based intervention for reducing stress in	\$1,021,000
School of Nursing	family caregivers of people with	
School of Nursing	dementia: a randomized controlled trial	
Prof. LIU Justina Yat-wa,	The effects of music-with-movement	\$1,478,766
Associate Head	(simultaneous cognitive-motor dual-task	\$1,470,700
(Postgraduate Education)	training) on cognitive and physical	
and Professor of the	performance of people with potentially	
School of Nursing	reversible cognitive frailty: a randomized	
School of Ivursing	controlled trial	
Dr ZHAO Ivy Yan,	Supporting current home care services	\$500,000
Assistant Professor of the	with a robot-mediated interactive	Ψ500,000
School of Nursing	intervention (RMII) to reduce loneliness	
School of Ivalshig	in older adults: a feasibility and pilot	
	randomized controlled trial	
Dr CHUN Ka Man,	Investigating the predictive capabilities	\$1,493,290
Assistant Professor of the	of choroidal parameters for the	+-, ., -, -, -, -, -, -, -, -, -, -, -, -, -,
School of Optometry	effectiveness of myopia control in	
2 chooses of optometry	schoolchildren	
Faculty of Science		
Dr CHUA Song-lin,	Developing Juglone as a novel	\$500,000
Assistant Professor of the	antivirulence agent to eliminate biofilm	
Department of Applied	infections	
Biology and Chemical		
Technology		
	I	1