Appendix: PolyU-led projects awarded RGC Collaborative Research Funding 2023/24

1. 2023/24 Collaborative Research Project Grant (CRPG) projects

Project Title	Project Coordinator	Funded (HKD)	Amount
Towards future climate-resilient	Prof. XIA Yong	5,056,919	
sea-crossing bridges via	Professor of the Department of	- , , -	
intelligent learning of long-term	Civil and Environmental		
real monitoring data	Engineering (in collaboration with		
l l l l l l l l l l l l l l l l l l l	CityU, HKUST and HKU)		
High-resolution single-cell multi-	Prof. YANG Mo	6,412,248	
omics: Joint profiling of multiple	Associate Head (Research) and		
types of biomolecules in the same	Professor of the Department of		
single cell	Biomedical Engineering (in		
	collaboration with CUHK and		
	HKUST)		
Multi-sensor monitoring,	Prof. CHEN Jianli	6,567,108	
geophysical interpretation and	Professor of the Department of		
prediction of sea level rise in	Land Surveying and Geo-		
Hong Kong	Informatics (in collaboration with		
	CUHK and HKUST)		
The roles of mechanically	Dr TAN Youhua	5,985,252	
heterogeneous local niches within	Associate Professor of the		
primary tumours in metastatic	Department of Biomedical		
organotropism	Engineering (in collaboration with		
	CUHK and HKU)		
Heterogeneity-aware	Prof. CAO Jiannong	7,364,305	
Collaborative Edge AI	Dean of Graduate School, Otto		
Acceleration	Poon Charitable Foundation		
	Professor in Data Science, Chair		
	Professor of Distributed and		
	Mobile Computing of the		
	Department of Computing (in		
	collaboration with HKUST and		
	HKU)		
Improving the health and stability	Prof. WANG Yuhong	5,407,780	
of roadside trees in compact urban	Professor of the Department of		
development through novel road	Civil and Environmental		
systems and tree root "training"	Engineering (in collaboration with		
	HKBU, HKUST and HKU)		
White Adipose Tissue (Fat)	Dr Kenneth King Yip CHENG	8,166,029	
Dysfunction in Ageing and its	Associate Professor of the		
Related Metabolic Diseases: New	Department of Health Technology		
Insights and Therapeutic Potential			

	and Informatics (in collaboration with CUHK and HKU)	
Towards Next-generation	Prof. TAN Kay Chen	6,430,953
Artificial Auditory System with	Chair Professor of Computational	
Brain-inspired Technologies	Intelligence, Associate Head of	
	the Department of Computing (in	
	collaboration with CUHK,	
	HKUST and HKU)	
Scalable Two-Dimensional	Dr ZHAO Jiong	4,100,714
Polymorphic Ferroelectrics	Associate Professor of the	
Towards In-Memory Processing	Department of Applied Physics	
	(in collaboration with CityU)	

2. 2023/24 Young Collaborative Research Grant (YCRG) projects

Project Title	Project Coordinator	Funded (HKD)	Amount
		` '	
The role of the human frontopolar	Dr Bolton CHAU	4,591,504	
cortex in complex decision	Associate Professor of the		
making: neural network	Department of Rehabilitation		
modelling, aging, and	Sciences (in collaboration with		
enhancement	HKBU, CUHK)		
Sensing in 6G Cellular Networks	Dr LIU Liang	4,843,318	
	Assistant Professor of the		
	Department of Electrical and		
	Electronic Engineering (in		
	collaboration with HKU)		