

Appendix

The list of CUHK-led projects awarded CRF grants is as follows (*in alphabetical order of family name*):

CRF 2024/25 Collaborative Research Project Grant (CRPG) Projects

Project Coordinator (School / Department)	Project Title	Coordinating University/ Collaborating Universities	Duration (Months)	Amount Awarded (HK\$)
Professor Ke Ya (Biomedical Sciences)	Brain Mechanism Underlying Experience-induced Modulation in Social Decision-making	CUHK / CityU, HKU	36	6,000,000
Professor Mao Chuanbin (Biomedical Engineering)	Tumor-homing Immunotherapeutic Phages for Efficiently Treating Hepatocellular Carcinoma	CUHK / PolyU	36	8,020,284
Professor Dennis Ng Kee-pui (Chemistry)	Advancing Photodynamic Therapy against Cancer through Bioorthogonal and Supramolecular Approaches	CUHK / CityU	36	6,185,284
Professor Amos Tai Pui-kuen (Earth and Environmental Sciences)	Transforming Chinese Agriculture and Food Systems to Mitigate Reactive Nitrogen Emissions and Their Contribution to Air Pollution and Climate Change	CUHK / PolyU, HKU	36	3,395,284
Professor Patrick Tang Ming-kuen (Anatomical and Cellular Pathology)	A Novel Neuro-Immune Axis MNT in Chronic Kidney Disease: From Molecular Mechanism to Clinical Implication	CUHK / HKU	36	6,000,000
Professor Wong Chi- chun (Medicine and Therapeutics)	Targeting Metabolic Vulnerabilities to Overcome Chemotherapy and Immunotherapy Resistance in Colorectal Cancer	CUHK / HKBU	36	6,000,000
Professor Patrick Wong Chun-man (Linguistics and Modern Languages)	Prenatal Music Training to Enhance Postnatal Neurocognitive Development	CUHK	36	6,000,000
Professor Zhang Li (Mechanical and Automation Engineering)	Development of Modular Microrobots and the Image- guided Intervention for Minimally Invasive Anti- adhesion Treatment after Tubal Cannulation	CUHK / PolyU	36	8,095,285

CRF 2024/25 Collaborative Research Equipment Grant (CREG) Projects

Project Coordinator (School / Department)	Project Title	Coordinating University/ Collaborating Universities	Duration (Months)	Amount Awarded (HK\$)
Professor David Chan Yiu-leung (Obstetrics and Gynaecology)	Live Imaging of Early Embryonic Developmental Processes at Subcellular Level with a High-throughput Dual View Light Sheet Microscope	CUHK / PolyU, HKU	36	2,815,200
Professor Alex Chow Tat-shing (Earth and Environmental Sciences)	C-FIST: Establishing World's Premier Environmental Organic Carbon Fingerprint Imaging Science & Technology Laboratory in Hong Kong	CUHK / CityU, HKBU, HKUST, HKU	36	3,535,400

CRF 2024/25 Young Collaborative Research Grant (YCRG) Projects

Project Coordinator (School / Department)	Project Title	Coordinating University/ Collaborating Universities	Duration (Months)	Amount Awarded (HK\$)
Professor Peter Cheung Pak-hang (Chemical Pathology)	Clinical and Mechanistic Investigation of the Cross Reactivity of Antibodies Against Emerging Viral Variants to Facilitate Vaccine Design	CUHK / HKBU, HKU	36	4,500,000
Professor Huang Chaoran (Electronic Engineering)	3D Photonic-electronic Neural Network Enabling Versatile and Large-scale AI Computing	CUHK / PolyU	36	4,087,800
Professor Jacque Ip Pak-kan (Biomedical Sciences)	Base Editing as an Intervention Strategy for Neurodevelopmental Disorders: Investigating Pathophysiological Mechanisms and Therapeutic Applications	CUHK / HKBU, HKUST	36	4,494,600