

Theme-based Research Scheme (TRS)

HKU's Participation in Funded Projects Coordinated by Other Local Universities

Round	Project Title	HKU Co-principal investigator(s)/ Co-Investigator(s)	Indicative Project Time-Frame	Participating UGC-funded institutions*
Twelfth (2022/23)	Multi-disciplinary Approaches to Tackle the Global Public Health Threat of Hypervirulent and Multidrug-resistant Klebsiella Pneumoniae	Professor X.C. Li (Chemistry)	2023-2027	CityU , CUHK, HKU, HKUST
	Unravelling the Black Box between Air Pollution and Public Health for Transformative Air Quality Management	Dr. G. He (Business and Economics) Dr. L. Tian (School of Public Health)	2023-2027	CityU, CUHK, HKU, HKUST, PolyU
	Institute of Medical Intelligence and XR	Dr. J.H.W. Hsiao (Psychology) Professor G. Yin (Statistics and Actuarial Science) Dr. L. Yu (Statistics and Actuarial Science)	2023-2027	CUHK , HKU, HKUST, PolyU
	SynchroHub: Cyber-Physical Internet for Synchronizing Cross-Border Logistics Hubs in the Greater Bay Area (GBA)	Professor Z.M. Shen (Industrial and Manufacturing Systems Engineering) Professor S.C. Wong (Civil Engineering) Professor X. Yuan (Mathematics) Dr. W. Huang (Industrial and Manufacturing Systems Engineering) Dr. R.Y. Zhong (Industrial and Manufacturing Systems Engineering)	2023-2027	PolyU , HKU#

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		Dr. F. Zhang (Industrial and Manufacturing Systems Engineering) Dr. Y.H. Kuo (Industrial and Manufacturing Systems Engineering)		
Eleventh (2021/22)	Stem Cell-niche Interactions in Tissue Maintenance and Engineering	Professor Z. Zhou (Biomedical Sciences)	2022-2026	CUHK, HKU, <u>HKUST</u>
	Healthy and Resilient City with Pervasive LoCHs	Professor W.W. Lu (Real Estate and Construction) Dr. F. Xue (Real Estate and Construction) Professor B.S. Tang (Urban Planning and Design) Dr. J. Huang (Urban Planning and Design) Dr C. Ren (Architecture)	2022-2026	CityU, HKU, HKUST, <u>PolyU</u>
Eleventh (2021/22)	Developing Hong Kong as a Global Green Finance Centre	Dr. G. He (Business and Economics)	2022-2026	CUHK, HKU, <u>HKUST</u> , PolyU
	Building Platform Technologies for Symbiotic Creativity in Hong Kong	Professor W.P. Wang (Computer Science)	2022-2026	CityU, <u>HKUST</u> , HKU

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Tenth (2020/2021)	Aptamer: Molecular Insight and Translational Theranostics	Professor J.A. Tanner (Biomedical Sciences) Dr. C. Qian (Biomedical Sciences)	2021-2025	CUHK, HKBU , HKU
	Wireless Power Transfer: The Next Stage	Dr. C. K. Lee (Electrical and Electronic Engineering) Professor S.C. Tan (Electrical and Electronic Engineering) Dr. Y. Hou (Electrical and Electronic Engineering)	2021-2025	CityU, CUHK, HKU#, PolyU
Ninth (2019/2020)	A Paradigm-shifting, Fully-integrated, Compact Wastewater-to-resource Facility (WWRF)	Professor T. Zhang (Civil Engineering)	2020-2024	CityU, CUHK, HKU, HKUST , PolyU
	SureFire: Smart Urban Resilience and Firefighting	Professor G.O. Huang (Industrial and Manufacturing Systems Engineering)	2020-2024	HKU, PolyU
Eighth (2018/2019)	A Stem Cell Approach to Dissect the Molecular Basis of Neurodegenerative Diseases	Dr. K.O. Lai (Biomedical Sciences)	2019-2023	CityU, CUHK, HKU, HKUST
	Sustainable Marine Infrastructure Enabled by the Innovative Use of Seawater Sea-Sand Concrete and Fibre-Reinforced Polymer Composites	Professor A.K.H. Kwan (Civil Engineering)	2019-2023	CityU, HKU, HKUST, PolyU
	Contributing to the Development of Hong Kong into a Global Fintech Hub	Dr. P.L.H. Yu (Statistics and Actuarial Science)	2019-2022	CityU, CUHK, HKU, HKUST
	Image-guided Automatic Robotic Surgery	Dr. K.W. Kwok (Mechanical Engineering)	2018-2023	CityU, CUHK , HKU

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Seventh (2017/2018)	Functional Bone Regeneration in Challenging Bone Disorders and Defects	Professor W.W. Lu (Orthopaedics and Traumatology)	2017-2022	CityU, CUHK , HKU, PolyU
	Creation of Rechargeable Electron-fuels for Stationary Power Supplies and Electric Vehicles	Professor G.K.Y. Chan (Chemistry)	2018-2022	CUHK, HKU, HKUST , PolyU
	Photochemical Air Pollution in Highly Urbanized Subtropical Regions: from Micro Environments to Urban-terrestrial-oceanic Interactions	Dr. C.H. Liu (Mechanical Engineering)	2018-2022	CUHK, HKU, HKUST, PolyU
Sixth (2016/2017)	Plasma DNA as a Platform Technology for Cancer Detection	Professor Y.L. Kwong (Medicine)	2016-2021	CUHK , HKU
	Diagnosis and Prognosis of Intensifying Eutrophication, Hypoxia and the Ecosystem Consequences around Hong Kong Waters: Coupled Physical-biogeochemical-pollution Studies	Dr. D.M. Baker (Biological Sciences) Dr. J. Chen (Civil Engineering)	2017-2021	CityU, CUHK, HKU, HKUST , PolyU
	A Compact System for Terahertz Imaging and Spectroscopy	Professor K.K.Y. Wong (Electrical and Electronic Engineering) Dr. N.P.Y. Lee (Surgery)	2017-2021	CityU , HKU
Fifth (2015/2016)	Centre for Research into Circulating Fetal Nucleic Acids	Professor W.C.S. Lau (Medicine)	2016-2020	CUHK , HKU
	Understanding Debris Flow Mechanisms and Mitigating Risks for a Sustainable Hong Kong	Dr C.H. Hau (Biological Sciences) Dr S.D. Nunes Lourenco (Civil Engineering)	2016-2020	CityU, HKUST , HKU
	Safety, Reliability, and Disruption Management of High Speed Rail and Metro Systems	Professor S.C. Wong (Civil Engineering)	2016-2020	CityU , CUHK, PolyU, HKU

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Fourth (2014/2015)	Delivering 21st Century Healthcare in Hong Kong – Building a Quality-and-Efficiency Driven System	Professor G.O. Huang (Industrial and Manufacturing Systems Engineering) Dr. K.L. Or (Industrial and Manufacturing Systems Engineering)	2014-2019	CityU , LU, CUHK, PolyU, HKUST, HKU
Third (2013/2014)	Systematic Development of Molecular Targets for Nasopharyngeal Carcinoma	Professor A.S.T. Wong (Biological Sciences) Professor G.S.W. Tsao (Biomedical Sciences) Dr. S.T. Cheung (Surgery) Dr. W.Y.V. Lui (Pharmacology and Pharmacy)	2014-2018	CUHK , HKU
	Smart Solar Energy Harvesting, Storage, and Utilization	Professor D.J. Hill (Electrical and Electronic Engineering)	2014-2018	CUHK , PolyU, HKUST, HKU
Second (2012/2013)	Stem Cell Strategy for Nervous System Disorders	Professor S.K. Chung (Biomedical Sciences) Professor Z. Zhou (Biomedical Sciences)	2012-2017	CUHK, PolyU, HKUST , HKU
	Cost-effective and Eco-friendly LED System-on-a-chip (SoC)	Dr. H.W. Choi (Electrical and Electronic Engineering)	2012-2017	HKUST , HKU
First (2011/2012)	The Liver Cancer Genome Project: Translating Genetic Discoveries to Clinical Benefits	Professor X. Guan (Clinical Oncology)	2011-2016	CUHK , HKUST, HKU

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First (2011/2012)	Transforming Hong Kong's Ocean Container Transport Logistics Network	Dr. J.J. Wang (Geography)	2011-2016	CityU, <u>HKUST</u> , HKU

*The underlined institutions are the co-ordinating institutions for the purpose of grant administration.

#Project coordination transferred post-award.

June 14, 2023