

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*
Eleventh (2021/22)	Stem Cell-niche Interactions in Tissue Maintenance and Engineering	Professor Z. Zhou (Biomedical Sciences)	2021-2026 (Tentative)	CUHK, HKU, HKUST
	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)	2021-2026 (Tentative)	CityU, HKU, HKUST , PolyU
	Developing Hong Kong as a Global Green Finance Centre	Dr. G. He (Business and Economics)	2021-2026 (Tentative)	CUHK, HKU, HKUST , PolyU
	Building Platform Technologies for Symbiotic Creativity in Hong Kong	Professor W.P. Wang (Computer Science)	2021-2026 (Tentative)	CityU, HKBU , HKU
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

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Ninth (2019/2020)	A Paradigm-shifting, Fully-integrated, Compact Wastewater-to-resource Facility (WWRF)	Professor T. Zhang (Civil Engineering)	2020-2024	CityU, CUHK, HKU, <u>HKUST</u> , PolyU
	SureFire: Smart Urban Resilience and Firefighting	Professor G.Q. Huang (Industrial and Manufacturing Systems Engineering)	2020-2024	HKU, <u>PolyU</u>
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, <u>HKUST</u>
	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, <u>PolyU</u>
	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, <u>HKUST</u>
	Image-guided Automatic Robotic Surgery	Dr. K.W. Kwok (Mechanical Engineering)	2018-2023	CityU, <u>CUHK</u> , HKU
Seventh (2017/2018)	Functional Bone Regeneration in Challenging Bone Disorders and Defects	Professor W.W. Lu (Orthopaedics and Traumatology)	2017-2022	CityU, <u>CUHK</u> , HKU, PolyU
	Creation of Rechargeable Electron-fuels for Stationary Power Supplies and Electric Vehicles	Professor G.K.Y. Chan (Chemistry)	2018-2022	CUHK, HKU, <u>HKUST</u> , 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, <u>PolyU</u>
Sixth (2016/2017)	Plasma DNA as a Platform Technology for Cancer Detection	Professor Y.L. Kwong (Medicine)	2016-2021	<u>CUHK</u> , HKU

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	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, <u>HKUST</u> , 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	<u>CityU</u> , HKU
Fifth (2015/2016)	Centre for Research into Circulating Fetal Nucleic Acids	Professor W.C.S. Lau (Medicine)	2016-2020	<u>CUHK</u> , 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, <u>HKUST</u> , HKU
	Safety, Reliability, and Disruption Management of High Speed Rail and Metro Systems	Professor S.C. Wong (Civil Engineering)	2016-2020	<u>CityU</u> , CUHK, PolyU, HKU
Fourth (2014/2015)	Delivering 21st Century Healthcare in Hong Kong – Building a Quality-and-Efficiency Driven System	Professor G.Q. Huang (Industrial and Manufacturing Systems Engineering) Dr. K.L. Or (Industrial and Manufacturing Systems Engineering)	2014-2019	<u>CityU</u> , LU, CUHK, PolyU, HKUST, HKU

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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	<u>CUHK</u> , HKU
	Smart Solar Energy Harvesting, Storage, and Utilization	Professor D.J. Hill (Electrical and Electronic Engineering)	2014-2018	<u>CUHK</u> , 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, <u>HKUST</u> , HKU
	Cost-effective and Eco-friendly LED System-on-a-chip (SoC)	Dr. H.W. Choi (Electrical and Electronic Engineering)	2012-2017	<u>HKUST</u> , HKU
First (2011/2012)	The Liver Cancer Genome Project: Translating Genetic Discoveries to Clinical Benefits	Professor X. Guan (Clinical Oncology)	2011-2016	<u>CUHK</u> , HKUST, HKU
	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.

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