

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*
Tenth (2020/2021)	Aptamer: Molecular Insight and Translational Theranostics	Professor J.A. Tanner (Biomedical Sciences) Dr. C. Qian (Biomedical Sciences)	2021-2025 (Tentative)	CUHK, HKBU , HKU
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.Q. 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
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

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	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
	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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