

## Theme-based Research Scheme (TRS)

### HKU's Participation in 40 Funded Projects Coordinated by Other Local Universities (including 2 projects transferred from HKU to other universities post-award)

Round	Project Title	HKU Co-Principal Investigator(s)/ Co-Investigator(s)	Indicative Project Time-Frame	Participating UGC-Funded Institutions*
Fourteenth (2024/25)	<a href="#">A Digital Twin for Enhancing Coastal Resilience against Extreme Storm Surges in Hong Kong</a>	TBC	2025-2029	<u>HKUST</u> , HKU, PolyU
	<a href="#">Enhancing Hong Kong's Role in Sustainable Supply Chain Finance via Technology Transformation</a>	TBC	2025-2029	<u>HKUST</u> , CityU, HKU, PolyU
	<a href="#">Social Robots with Embedded Large Language Models Releasing Stress among the Hong Kong Population</a>	TBC	2025-2029	<u>PolyU</u> , CUHK, EdUHK, HKBU, HKU, HKUST
Thirteenth (2023/24)	<a href="#">Diamond-based Multi-modal Quantum Sensing of Nanomagnetism</a>	<a href="#">Professor Y. Lu</a> (Mechanical Engineering) <a href="#">Professor X. Cui</a> (Chemistry) <a href="#">Professor G. Chiribella</a> (Computer Science)	2024	CityU, <u>CUHK</u> , HKU, HKUST
	<a href="#">INTACT: Intelligent Tropical-storm-resilient System for Coastal Cities</a>	<a href="#">Professor X. Deng</a> (Civil Engineering)	2024-2028	CityU, HKU, HKUST, <u>PolyU</u>
	<a href="#">High-performance Collaborative Edge Computing Enabling Smart City Applications: Framework and Methodologies</a>	<a href="#">Professor C. Wu</a> (Computer Science)	2024-2028	CUHK, HKU, HKUST, <u>PolyU</u>
	<a href="#">Single-Cell Multi-Omics Study of Atherosclerotic Vascular Disease: Narrowing the Gap Between Bench and Bedside</a>	<a href="#">Professor A. Xu</a> (Medicine) <a href="#">Professor K.H. Yiu</a> (Medicine)	2024-2028	<u>CityU</u> , CUHK, HKBU, HKU, HKUST

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	<a href="#">Digital Twin-empowered Landslide Emergency Risk Management</a>	<a href="#">Professor J.J.J. Jiao</a> (Earth Sciences) <a href="#">Professor B. Huang</a> (Geography)	2024-2028	CUHK, HKU, <u>HKUST</u>
Twelfth (2022/23)	<a href="#">Multi-disciplinary Approaches to Tackle the Global Public Health Threat of Hypervirulent and Multidrug-resistant <i>Klebsiella Pneumoniae</i></a>	<a href="#">Professor X.C. Li</a> (Chemistry)	2023-2027	<u>CityU</u> , CUHK, HKU, HKUST
	<a href="#">Unravelling the Black Box between Air Pollution and Public Health for Transformative Air Quality Management</a>	<a href="#">Dr. G. He</a> (Business and Economics) <a href="#">Dr. L. Tian</a> (School of Public Health)	2023-2027	CityU, CUHK, HKU, HKUST, <u>PolyU</u>
	<a href="#">Institute of Medical Intelligence and XR</a>	<a href="#">Dr. J.H.W. Hsiao</a> (Psychology) <a href="#">Professor G. Yin</a> (Statistics and Actuarial Science) <a href="#">Dr. L. Yu</a> (Statistics and Actuarial Science)	2023-2027	<u>CUHK</u> , HKU, HKUST, PolyU
	<a href="#">SynchroHub: Cyber-Physical Internet for Synchronizing Cross-Border Logistics Hubs in the Greater Bay Area (GBA) #</a>	<a href="#">Professor Z.M. Shen</a> (Industrial and Manufacturing Systems Engineering) <a href="#">Professor S.C. Wong</a> (Civil Engineering) <a href="#">Professor X. Yuan</a> (Mathematics) <a href="#">Dr. W. Huang</a> (Industrial and Manufacturing Systems Engineering) <a href="#">Dr. R.Y. Zhong</a> (Industrial and Manufacturing	2023-2027	<u>PolyU</u> , HKU

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

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Tenth (2020/21)	<a href="#">Aptamer: Molecular Insight and Translational Theranostics</a>	<a href="#">Professor J.A. Tanner</a> (Biomedical Sciences) <a href="#">Dr. C. Qian</a> (Biomedical Sciences)	2021-2025	CUHK, <a href="#">HKBU</a> , HKU
	<a href="#">Wireless Power Transfer: The Next Stage</a> #	<a href="#">Dr. C. K. Lee</a> (Electrical and Electronic Engineering) <a href="#">Professor S.C. Tan</a> (Electrical and Electronic Engineering) <a href="#">Dr. Y. Hou</a> (Electrical and Electronic Engineering)	2021-2025	CityU, CUHK, HKU, <a href="#">PolyU</a>
Ninth (2019/20)	<a href="#">A Paradigm-shifting, Fully-integrated, Compact Wastewater-to-resource Facility (WWRF)</a>	<a href="#">Professor T. Zhang</a> (Civil Engineering)	2020-2024	CityU, CUHK, HKU, <a href="#">HKUST</a> , PolyU
	<a href="#">SureFire: Smart Urban Resilience and Firefighting</a>	<a href="#">Professor G.Q. Huang</a> (Industrial and Manufacturing Systems Engineering)	2020-2024	HKU, <a href="#">PolyU</a>
Eighth (2018/19)	<a href="#">A Stem Cell Approach to Dissect the Molecular Basis of Neurodegenerative Diseases</a>	<a href="#">Dr. K.O. Lai</a> (Biomedical Sciences)	2019-2023	CityU, CUHK, HKU, <a href="#">HKUST</a>
	<a href="#">Sustainable Marine Infrastructure Enabled by the Innovative Use of Seawater Sea-Sand Concrete and Fibre-Reinforced Polymer Composites</a>	<a href="#">Professor A.K.H. Kwan</a> (Civil Engineering)	2019-2023	CityU, HKU, HKUST, <a href="#">PolyU</a>
	<a href="#">Contributing to the Development of Hong Kong into a Global Fintech Hub</a>	<a href="#">Dr. P.L.H. Yu</a> (Statistics and Actuarial Science)	2019-2022	CityU, CUHK, HKU, <a href="#">HKUST</a>
	<a href="#">Image-guided Automatic Robotic Surgery</a>	<a href="#">Dr. K.W. Kwok</a> (Mechanical Engineering)	2018-2023	CityU, <a href="#">CUHK</a> , HKU

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Seventh (2017/18)	<a href="#">Functional Bone Regeneration in Challenging Bone Disorders and Defects</a>	<a href="#">Professor W.W. Lu</a> (Orthopaedics and Traumatology)	2017-2022	CityU, <u>CUHK</u> , HKU, PolyU
	<a href="#">Creation of Rechargeable Electron-fuels for Stationary Power Supplies and Electric Vehicles</a>	<a href="#">Professor G.K.Y. Chan</a> (Chemistry)	2018-2022	CUHK, HKU, <u>HKUST</u> , PolyU
	<a href="#">Photochemical Air Pollution in Highly Urbanized Subtropical Regions: from Micro Environments to Urban-terrestrial-oceanic Interactions</a>	<a href="#">Dr. C.H. Liu</a> (Mechanical Engineering)	2018-2022	CUHK, HKU, HKUST, <u>PolyU</u>
Sixth (2016/17)	<a href="#">Plasma DNA as a Platform Technology for Cancer Detection</a>	<a href="#">Professor Y.L. Kwong</a> (Medicine)	2016-2021	<u>CUHK</u> , HKU
	<a href="#">Diagnosis and Prognosis of Intensifying Eutrophication, Hypoxia and the Ecosystem Consequences around Hong Kong Waters: Coupled Physical-biogeochemical-pollution Studies</a>	<a href="#">Dr. D.M. Baker</a> (Biological Sciences) <a href="#">Dr. J. Chen</a> (Civil Engineering)	2017-2021	CityU, CUHK, HKU, <u>HKUST</u> , PolyU
	<a href="#">A Compact System for Terahertz Imaging and Spectroscopy</a>	<a href="#">Professor K.K.Y. Wong</a> (Electrical and Electronic Engineering) <a href="#">Dr. N.P.Y. Lee</a> (Surgery)	2017-2021	<u>CityU</u> , HKU
Fifth (2015/16)	<a href="#">Centre for Research into Circulating Fetal Nucleic Acids</a>	<a href="#">Professor W.C.S. Lau</a> (Medicine)	2016-2020	<u>CUHK</u> , HKU
	<a href="#">Understanding Debris Flow Mechanisms and Mitigating Risks for a Sustainable Hong Kong</a>	<a href="#">Dr C.H. Hau</a> (Biological Sciences) <a href="#">Dr S.D. Nunes Lourenco</a> (Civil Engineering)	2016-2020	CityU, <u>HKUST</u> , HKU

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	<a href="#">Safety, Reliability, and Disruption Management of High Speed Rail and Metro Systems</a>	<a href="#">Professor S.C. Wong</a> (Civil Engineering)	2016-2020	<a href="#">CityU</a> , CUHK, PolyU, HKU
Fourth (2014/15)	<a href="#">Delivering 21st Century Healthcare in Hong Kong – Building a Quality-and-Efficiency Driven System</a>	<a href="#">Professor G.Q. Huang</a> (Industrial and Manufacturing Systems Engineering) <a href="#">Dr. K.L. Or</a> (Industrial and Manufacturing Systems Engineering)	2014-2019	<a href="#">CityU</a> , LU, CUHK, PolyU, HKUST, HKU
Third (2013/14)	<a href="#">Systematic Development of Molecular Targets for Nasopharyngeal Carcinoma</a>	<a href="#">Professor A.S.T. Wong</a> (Biological Sciences) <a href="#">Professor G.S.W. Tsao</a> (Biomedical Sciences) Dr. S.T. Cheung (Surgery) <a href="#">Dr. W.Y.V. Lui</a> (Pharmacology and Pharmacy)	2014-2018	<a href="#">CUHK</a> , HKU
	<a href="#">Smart Solar Energy Harvesting, Storage, and Utilization</a>	<a href="#">Professor D.J. Hill</a> (Electrical and Electronic Engineering)	2014-2018	<a href="#">CUHK</a> , PolyU, HKUST, HKU
Second (2012/13)	<a href="#">Stem Cell Strategy for Nervous System Disorders</a>	<a href="#">Professor S.K. Chung</a> (Biomedical Sciences) <a href="#">Professor Z. Zhou</a> (Biomedical Sciences)	2012-2017	CUHK, PolyU, <a href="#">HKUST</a> , HKU
	<a href="#">Cost-effective and Eco-friendly LED System-on-a-chip (SoC)</a>	<a href="#">Dr. H.W. Choi</a> (Electrical and Electronic Engineering)	2012-2017	<a href="#">HKUST</a> , HKU

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First (2011/12)	<a href="#">The Liver Cancer Genome Project: Translating Genetic Discoveries to Clinical Benefits</a>	<a href="#">Professor X. Guan</a> (Clinical Oncology)	2011-2016	<u>CUHK</u> , HKUST, HKU
	<a href="#">Transforming Hong Kong's Ocean Container Transport Logistics Network</a>	<a href="#">Dr. J.J. Wang</a> (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 from HKU to another university post-award

July 15, 2024