



Press Release

Nine HKU projects receive funding under NSFC/RGC Joint and Collaborative Research Schemes

January 14, 2024



*(upper row) Prof Yuanliang Zhai, Prof Qi Zhao, Prof Xiaoyu Li and Prof Weiping Wang
(lower row) Prof Bin Chen, Prof Wei Qiao, Prof Zhiqin Chu, Prof Jun Yang and Prof Lixin Dai*

Nine research projects by the University of Hong Kong (HKU) have secured funding under the National Natural Science Foundation for China and the Research Grants Council (NSFC/RGC) 2023/24 Exercise. Specifically, eight projects were funded by the NSFC/RGC Joint Research Scheme (JRS), and one project was funded by the NSFC/RGC Collaborative Research Scheme (CRS).

The Research Grants Council of Hong Kong (RGC) earlier announced the funding results. The JRS is designed to foster collaboration between researchers and research teams in Hong Kong and the mainland, leveraging the unique strengths of both regions. In contrast, the CRS focuses on promoting larger-scale, interdisciplinary collaborative research involving universities across mainland China and Hong Kong, with the goal of enhancing research output and impact for both areas.

The HKU project funded under NSFC/RGC Collaborative Research Scheme:
[Mechanistic Study of the Parental Histone Recycling at Replication Forks](#)
Project Coordinator (Hong Kong):
Professor Yuanliang Zhai, School of Biological Sciences, Faculty of Science



香 港 大 學

THE UNIVERSITY OF HONG KONG

The eight HKU projects funded under NSFC/RGC Joint Research Scheme:

Information Technology

[Practical Quantum Dynamics Simulation – Theory and Application](#)

Principal Investigator (Hong Kong):

Professor Qi Zhao, Department of Computer Science, Faculty of Engineering

Life Science

[Discovery of Novel Molecular Glue Molecules by Using DNA-encoded Chemical Libraries \(DELS\)](#)

Principal Investigator (Hong Kong):

Professor Xiaoyu Li, Department of Chemistry, Faculty of Science

Medicine

[Photoresponsive mRNA Delivery System for Esophageal Carcinoma Treatment](#)

Principal Investigator (Hong Kong):

Professor Weiping Wang, Department of Pharmacology and Pharmacy, LKS Faculty of Medicine

Marine and Environmental Science

[Advancing Pollen-induced Health Risk Assessment with Geospatial Big Data](#)

Principal Investigator (Hong Kong):

Professor Bin Chen, Division of Landscape Architecture, Faculty of Architecture

New Materials Science

[The Investigation of Biodegradable Zinc-lithium-magnesium Alloy as a Novel Implant to Promote Osteogenesis through the Stimulation of the Bone-brain Axis](#)

Principal Investigator (Hong Kong):

Professor Wei Qiao, Applied Oral Sciences and Community Dental Care, Faculty of Dentistry

[Development of Quantum-Enhanced Diamond Molecular Tension Microscopy: Towards Precise and Label-free Imaging of Cellular Forces](#)

Principal Investigator (Hong Kong):

Professor Zhiqin Chu, Department of Electrical and Electronic Engineering, Faculty of Engineering

Others

[Theoretical and Experimental Study of the Performance of Suction Bucket Foundation for Offshore Wind Turbines under Complex Geological and Multi-hazard Conditions](#)

Principal Investigator (Hong Kong):

Professor Jun Yang, Department of Civil Engineering, Faculty of Engineering

[Investigating the Properties and Impacts of the Wind Launched from Black Hole Super-Eddington Accretion Flow](#)

Principal Investigator (Hong Kong):

Professor Lixin Dai, Department of Physics, Faculty of Science



香 港 大 學

THE UNIVERSITY OF HONG KONG

Please visit the UGC website for the full list of funded projects for 2023/24 under the NSFC/RGC [Joint Research Scheme](#), and the [Collaborative Research Scheme](#).

Media enquiries:

Communication and Public Affairs Office, HKU

Ms Melanie Wan (Tel: 2859 2600 / Email: melwkwan@hku.hk)

Ms Jaymee Ng (Tel: 3910 3612 / Email: ngjaymee@hku.hk)

Mr Kenneth Choi (Tel: 2859 2607 / Email: khkchoi@hku.hk)