

Appendix: CUHK awards at the 12th Hong Kong University Student Innovation and Entrepreneurship Competition

Award	Project Name	Name of Participant(s)
Innovation		
Life Sciences		
Second prize	Microbe-gut-cartilage Axis-on-a-chip for Investigating Effects of Probiotics on Joint Homeostasis and Osteoarthritis	Liu Jun
Second prize	Inorganic Chiral Nanotopographies Potentiate Stem Cell-derived Extracellular Vesicles to Enhance Osteogenesis and Accelerate Bone Regeneration	Wang Yuwen Wang Chaoqun
Third Prize	Phase-separated Peptide Coacervates as Novel Delivery Vehicles for mRNA Vaccines	Xu Zhiyi Zheng Zhong
Merit Prize	Engineered PDLSC-derived Extracellular Vesicles Conjugated with cRGD or NGF-Mimetic Peptides for Targeted Spinal Cord Regeneration	Zhang Yuwei Zeng Qiongjiao Santoso Berenica Zhou Zhilong
Merit Prize	A Multimodal AI Stratification Framework for Precision Management of Esophageal Squamous Cell Carcinoma: From Consensus Molecular Subtypes to Histology- and CT-based Non-invasive Prediction	Zhang Yinghan Qiao Sitan Nie Xiuping Xu Jia Cheng Yikun
Merit Prize	Development of a Novel DNA Drug for Potentiating Immune Checkpoint Immunotherapy in Lung Cancer	Zhou Jue Yang Guanqun Ji Zeyuan
Merit Prize	A Novel Anti-tumour Therapy via Reprogramming T-cell Metabolism	Yang Guanqun Zhou Jue Ji Zeyuan
Mathematics and Physics / Mechanics and Control Systems		
First prize	Design and Mechanism Analysis of an Inertia-driven Amphibious Robot	Ling Qitang Yang Yongzun Wang Zihang

Second prize	A Vision-Language-Action Model for Adaptive Ultrasound-guided Needle Insertion and Needle Tracking	Zhang Yuelin Ding Qingpeng Hong Zhouyang Kang Luoyao Xie Wenxuan
Second prize	A Centimetre-scale MRI-compatible Needle Driver Enabling Real-time MR Image-guided Interventions and Flexible Needle Steering	Qiu Yufu
Third Prize	A New Portable Omnidirectional Delta-structured Mobile Manipulator for Environmental Cleanup	Zhang Zhewei Wong Chi Keung Chen Zhuyi Chio Kuan Leng
Third Prize	Exploring Continuum Robot Agents for Firefighting in Buildings	Ng Chi Kit Chen Xuran Tang Zhiqing Tamima Tabassum Wu Tianchun Zhang Yidong Liu Shuchang Xiao Xiyue
Third Prize	Augmented Finger – Modular and Repositionable Wearable Additional Finger(s)	He Jie Au Wing Yiu Tao Jiayi
Merit Prize	A Terminal Micro-circulation Transfer System for High-density Residential Recycling Based on a Gear-driven Dual-claw Collaborative Grasping Mechanism	Lee Hon Lam Ho Pui Yan

Award	Project Name	Name of Participant(s)
Entrepreneurship		
Social Enterprise / Cultural & Creative Services		
Second prize	Brewthy	Leung Hiu Tung Tsang See Jet Issa Cheung Sin Yu
Third Prize	CantoMore	Lam Sze Ming Leung Pui Ying Yeung Tsz Ting Chan Wai Chuen Ho Tsz Yung Chan Pak Yee
Merit Prize	DUALVein – Portable AI Guidance for Vein Injection Learning	Jarinyagon Chantawannakul Lam Ka Hei
Entrepreneurship Proposal		
Second prize	Farm-to-Fuel Greenshift-Novel system for biogas upgrading to green fuels	Wang Junyang Tang Zihui
Third Prize	Transforming Immunotherapy and Vaccine Development through AI-enhanced Non-canonical Antigen Discovery	Wang Ziwei Zhong Ming Wang Tingyu