

Appendix

CUHK awards at the 9th Hong Kong University Student Innovation and Entrepreneurship Competition

Award	Project Name	Name of Participants(s)
Innovation		
Grand Prize	A MR Safe RCM Constrained Robotic Needle with Bellow-based Hydraulic Actuators for Spine Procedures	Qiu Yufu, Yan Junyan, Chen Jibiao, Fang Haiyang
Energy, Environmental and Chemical Engineering		
First Prize	From Packaging Materials to Meals: The Potential of Bacterial Cellulose as Sustainable Food Packaging	Jiang Zhuolun, Cheung Ka-man, Chong Hio-lam
Second Prize	Pure Inorganic-based Silica Titania Hybrid Hollow UV Filter for Cosmetic Applications	Liu Liangdong
Information Technology		
Third Prize	Digital Commons: The Role of Immersive Digital Twin and Gamification Technologies in Intergenerational Codesign of Public Spaces	Provides Ng, Li Yuechun, Xu Bingge, Zhu Shutong
Mathematics and Physics / Mechanics and Control Systems		
First Prize	A MR Safe RCM Constrained Robotic Needle with Bellow-based Hydraulic Actuators for Spine Procedures	Qiu Yufu, Yan Junyan, Chen Jibiao, Fang Haiyang
Second Prize	A Semi-autonomous Handheld Robotic System with Ultrasound-based Visual Feedback and Shared Control for Pericardiocentesis	Yan Wanquan, Yan Kim
Second Prize	Handheld Hybrid Structure Robotic Surgical System for Confined Space ENT Surgery	Wang Xuchen, Ng Wee Shen, Vincent, Lin Hongbin
Third Prize	Skullbot: MRI-Compatible Skull-mounted Robot for Needle Intervention	Fang Zhiwei, Gao Huxin
Merit Prize	A Flexible and Energy-efficient Wearable Back-support Exoskeleton for Asymmetric Lifting Tasks Assistance	Liao Hongpeng, Chan Hugo Hung Tin
Life Sciences		

First Prize	CUHK Site-selective Antibody Modification and its Application	Yuan Dingdong, Chen Hongfei, Li Biquan
Second Prize	Design and Development of a Novel Long-lasting Aptamer Modification Strategy Based on the Bimolecular Combination	Zhang Huarui, Zhang Yihao, Li Haitian
Second Prize	A Novel and Highly Effective T Cell Therapy for Solid Cancers	Chan Kam Kwan, Ji Zeyuan, Li Siu Fan Jane, Chan Lok Yiu
Third Prize	Development of mRNA Vaccine Targeting Tumour Immune Microenvironment for Pancreatic Cancer Treatment	Luo Zhiyuan
Merit Prize	SMTRI: A Deep Learning Platform to Predict Small Molecules Targeting miRNA-mRNA Interactions	Xiao Huan, Zhang Yihao
Merit Prize	A Novel Antibacterial Strategy Targeting Cancer-related Staphylococcus Aureus	Li Jiaqi, Zheng Huangliang
Merit Prize	Deliver Cytotoxic Substance by scFv Region of Antibody to Exert Cytotoxicity as Therapeutic Approach of Liver Cancer	Lo Yan Ching, Li Kin Luen, Lee Chun Kit, Cheung Wing Tung, Wong Tsz Wai, Xu Ching Fai
Entrepreneurship		
Grand Prize	Meat the Next Tiger Nut Enzymatic Reaction Technology	Chan Ka Ming, Harkirat Singhdhaliwal, Che Hiu Suet
Entrepreneurship Proposal		
Merit Prize	Nanomedicine for EBV Associated Malignancies	Leung Hei Man
Startup		
First Prize	Meat the Next Tiger Nut Enzymatic Reaction Technology	Chan Ka-ming, Harkirat Singhdhaliwal, Che Hiu-suet
Third Prize	Fleming MedLab – Wearable Robots For Stroke Survivors to Walk and Brain Recovery	Ty Pak-sing, Heung Ho-lam
Merit Prize	Femtosecond Projection NanoPrinter Ultrafast Multimaterial 3D Nanofabrication Platform	Datar Charudatta Achyut, Zhong Qiuyuan, Gu Songyun, Han Fei, Fu Xinlei, Professor Chen Shih-chi