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第 7 屆

香港大學生創新及創業大賽

The 7th Hong Kong University Student
Innovation and Entrepreneurship Competition

參賽指南

Competition Handbook

獎金贊助
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"Any opinions, findings, conclusions or recommendations expressed in this material/event (or by members of the project team) do not reflect the views of the Government of the Hong Kong Special Administrative Region, the Innovation and Technology Commission or the Vetting Committee of the General Support Programme of the Innovation and Technology Fund.

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About Us



創立於1974年 公共性質慈善機構

Established in 1974, Hong Kong New Generation Cultural Association (HKNGCA) is a government-recognized charitable organization. Since our establishment, we have been committed to serve youngsters and teachers in Hong Kong, providing them with services and programs in a wide variety of areas, including science and innovation education, liberal education, national education, leadership training, teachers' support, civic education, and innovation and entrepreneurial support.

In order to further our efforts to promote innovation and entrepreneurship, we established the "HKNGCA Innovation and Entrepreneurship Centre" in 2016. The centre organizes the largest university student innovation and entrepreneurship competition in Hong Kong annually. It is also responsible for assembling a team to represent Hong Kong national competitions, including the innovation Nanshan "Entrepreneurs Star Contest", the "China Innovation & Entrepreneurship Competition", the "Challenge Cup" National Competition (which is recognized as the "China youth innovation and entrepreneurship Olympic") and the China College Students'

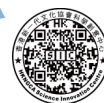
"Internet Plus" Innovation and Entrepreneurship Competition (which is known as "the best and biggest roadshow platform worldwide"). Not only do us bridged Hong Kong young talents to National platforms and opportunities, we are also dedicated to provide them with all-rounded support throughout their innovation and entrepreneurship journey. For instance, we have established the "Youth Innovation and Entrepreneurship Fund", organized talks and training workshops, set up outstanding projects exhibitions as well as connected young entrepreneurs with mentors.



Headquarter
(Causeway Bay)



Science Innovation
Centre
(Sai Kung)



Innovation &
Entrepreneurship Centre
(HKSTP)



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Competition Overview



Judges

Over 40 Professors/ Expert
/ Industry Representatives



No. of Entry

201



No. of Institutions

19



No. of Participant

608



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Timeline



Initial Judging

Date : 8/ 5/2021 (Sat)

Time : 10:00 – 12:00

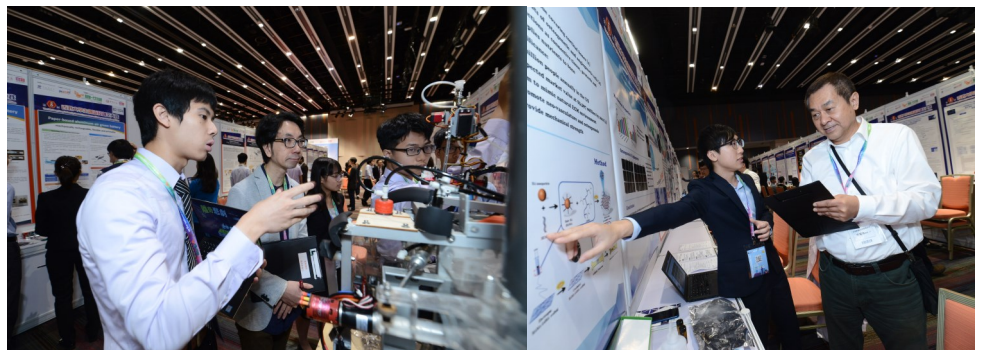
Venue : 10W, HKSTP

Final Judging

Date : 28/ 5/2021(Fri)

Time : 9:00 – 13:00

Venue : 12W, HKSTP



Public Exhibition

Date : 28/ 5/2021(Fri)

Time : 14:00-16:00

Venue : 12W, HKSTP

Award Ceremony

Date : Mid – Nov , 2021

Time : TBC

Venue : TBC



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Judges (Innovation)

Category	Name	Department / Title
Life Sciences	Prof. CHAN Wood Yee Woody	Associate Director (Graduate Education), School of Biomedical Sciences, CUHK
	Prof. FONG Wing-ping	Professor, School of Life Sciences, CUHK
	Prof. Albert Cheung-Hoi YU, JP	Chairman and Chief Scientific Officer (CSO), Hong Kong Biotechnology Organization
	Dr. YUE, Patrick Ying Kit	Lecturer I & Program Director, HKBU
Energy, Environmental & Chemical Engineering	Prof. Jason CHAN	Assistant Professor of Science Education, Department of Chemistry, HKUST
	Dr. S G CHEUNG	Associate Professor, Department of Chemistry, CityU
	Prof. Ho Kin-Chung BBS, JP	Founding Chairman/Director of Polar Research Institute of Hong Kong
	Prof. LEE Hung Kay	Associate Professor, Department of Chemistry, CUHK
	Dr. TSANG Yiu Fai	Associate Professor, Department of Science and Environmental Studies, EdUHK
Math. & Phy/ Mechanics & Control Systems	Dr. CHENG Lee Ming	Chairman of MaCaPS International Limited
	Prof. LEUNG, Dennis Y.C.	Head of Department of Mechanical Engineering, HKU
	Ir LO Kok-keung	Chartered Mechanical Engineer & Chartered Marine Engineer
	Dr. TONG Shiu Sing	Senior Lecturer, Department of Physics, CUHK

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Judges (Innovation)

Category	Name	Department / Title
Information Technology	Dr. Fu Tak Chung	Head, Department of Information Technology, VTC (Sha Tin)
	Dr. Wendy LEE	Regional Manager of Autodesk Hong Kong & Macau
	Prof. Raymond Kai-Yu TONG	Professor and Chairman, Department of Bio-medical Engineering, CUHK
	Prof. Tim WOO	Associate Professor of Engineering Education, Dept of Electronic & Computer Engineering, HKUST
	Professor YEH, Anthony G.O.	Chair Professor (Urban Planning and Geographic Information Systems), HKU

Judges (Entrepreneurship)

Name	Department / Title
Mr. Kenneth CHAU	Honorary President of Technology Incubation Network
Mr. Jeff CHEUNG	Vice President CPE Business Commercial Group of HKT
Dr. Kenneth KAM	Founder and Chief Scientific Officer, GroKen Bioscience Ltd and Qi Diagnostics Ltd
Mr. Gordon LAM	Chairman, Sinofuture Group Limited
Mr. Steve LAM	Manager, Entrepreneurship Team , Hong Kong Cyberport Management Co Ltd

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Judges (Entrepreneurship)

Name	Department / Title
Mr. Hilton LAW	CEO of Integrated Solutions Limited
Ms. May Lo	Assistant Director (Corporate Development & Training), Institute for Entrepreneurship, PolyU
Dr. Vincent, LEUNG	Professor of Practice (Marketing), PolyU
Mr. Ivan SHUM	Chairman of Angel Investment Foundation
Mr. Donny SIU	Acting Director cum Head (Entrepreneurship Programs), HKUST
Dr. Jian SUN	Director of Internal Operations, Hong Kong X Technology Fund & Hong Kong X-Tech Startup Platform
Dr. Samson TAM , JP	Partner of Hong Kong INNO Angel Fund
Mr. Jimmy TAO	CEO of Vitargent (International) Biotechnology Limited
Mr. Alan TO	Co Founder, Yum Cha Together & Asia Pacific Marketing Di- rector of Global Sustainability Consultancy
Ms. KiKi WANG	Director, Incubation & Acceleration Programmes of HKSTP
Mr. Vincent WONG	Chairman, Welfare Electronic Component Ltd
Ms. Flora YEUNG	Manager, Entrepreneurship Team , Hong Kong Cyberport Management Co Ltd
Prof. Ken ,YUNG	Executive Associate Dean, Graduate School, HKBU

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Finalist — Innovation

Life Science

Project Code	Project Name	Category	Name of Participant(s)
LS-011	Age-Induced Deterioration of Neuro-Muscular Junction in Sarcopenia: Study on Gene Expression and Morphology	Research Thesis	Ng Wing Fai Sofie
LS-013	Highly dynamic nanocomposite hydrogels self-assembled by metal ion-ligand coordination	Research Thesis	Yuan Wei Hao/Yao Zhi/ Lai Chun Him Nathanael/ Guo Jia Xin/Tung Lok Him/ Xu ShunXiang
LS-014	A new nanoscale approach in weight loss treatment through browning-induced-thermogenesis with altering active ingredient bioavailability	Research Thesis	Chan Kin Long/Lee Yan Ting Mak Kin Shing/Chan Man Yau/ Yip Man Shun/Wong Yi Lok/ Wong Hung Tai/Wong Hoi Yin/ Tong Ka Wai/Wong Wai Ho
LS-015	Approach to Assist Traditional Human Trial by Stem Cells Testing in Vaccine Development	Research Thesis	Lau Wa Wai Veronica/ Cheng Choi Tung/Lai Wing Hei
LS-017	A Novel Neutrophil-based Anticancer Immunotherapy: S3KO-TAN	Invention	Jeff Yat Fai Chung/ Chan Max Kam Kwan
LS-018	In Planta Gene Regulation by Nanotechnology	Research Thesis	Lau Yolanda Fong Yung/ Chiu Yee Ting
LS-020	Virucidal, Reusable and Cost-Effective Respirator	Invention	Li Pak Hin
LS-021	Bioengineered Hair Follicle Model for Hair Follicle Regeneration and High-Throughput Drug Screening	Invention	Ou Wan Jing
LS-024	Aero-Hydroponic Agriculture System (AHAS)	Invention	Tang Chun Ki/Cheng Yuk Shing/ Wong Tat Chee
LS-027	Graphene Liquid Marbles Accelerate Osteogenic Maturation of Human Bone Marrow-derived Mesenchymal Stem Cell Spheroids	Research Thesis	Zhang Yage

Energy, Environmental and Chemical Engineering

Project Code	Project Name	Category	Name of Participant(s)
EC-010	Construction Noise Permit Application System Based on Geographic Information System and Noise Control Ordinance	Invention	Chiu Kai Yim/Wong Ho Lun/ Lee Wing Sze/Lee Chantel Alexandra/Suen Lok Fai/Ivan Jasper Istanto/Kong Yiu Lun
EC-011	Artificial leaves : Photo-electrocatalytic conversion of solar fuel product	Research Thesis	Li Xintong/Liu Yizhe/ Fung Uing Lam Viona/ Wan Ka Ming
EC-013	Durable Paper Fuel Cells with Instant Refueling Ability	Research Thesis	Luo Shijing/Leong Kee Wah/ Zhao Xiaolong
EC-014	Single-shot, synthetic polarization digital holographic microscope for under water microplastic detection	Research Thesis	Zhu Yan Min
EC-016	Model Predictive Control Based Voltage and Frequency Regulation in Microgrids	Research Thesis	Cheng Yau Chung
EC-018	Performance Analysis of Bifacial Solar PV module and its Application in Hong Kong	Research Thesis	Hung Tak Lam/Lam Nico Leung Chun Kuen/
EC-020	Reusable nanofibrous membrane filters for environmental applications	Invention	Zhang Jun Wei/Lo Yan Tung/ Zhou Sheng Hua/ Long Li

Energy, Environmental and Chemical Engineering

Project Code	Project Name	Category	Name of Participant(s)
EC-023	Fog-Powered Green Generator	Invention	Yao Xiaoxue/Ling Chen/ Wang Hongbo/Yi Minghui Liang Weichang/
EC-024	High Performance Solution-Processed Perovskite Solar Cell Towards Sustainable Development	Research Thesis	Zhang Heng Kai/Ren Zhiwei/ Liu Kuan
EC-025	Tissue-like Liquid Robots Programmed by Phase Separation Enabled All-Aqueous Printing	Research Thesis	Zhu Shi Pei/Zhang Yage

Math. & Phys./ Mechanics & Control Systems

Project Code	Project Name	Category	Name of Participant(s)
MC-010	Automated Ultrasound Guided Needle Tip Tracing System	Invention	Yan Wanquan
MC-011	Adopting VR and AR Technology to Minimize Human Casualty in Construction Site	Research Thesis	Ho Ho Nam/ Wong Kwong Sau
MC-012	Versatile Soft Robotic Upper Limb Assistive Device for the Physically Challenged	Invention	Siu Shi Pan/ Wong Chi Ka/ Lee Tsz Yan/Wong Sin Yi/ Cheung So Yee/Ng Pui Hin
MC-014	Miniaturized robotic steerable surgical drill for confined space bone work	Invention	Wang Yan/ Wang Xuchen/ Lin Hongbin
MC-015	A General Framework for Robotics Vision-based and Lidar-based Applications	Invention	Liu Kang Cheng
MC-016	Hand-powered Blood Collector for Point-of-care Diagnosis	Invention	Feng Wai Yi Lothar/ Chan Tsz Hong/ Limarta Vincent Egan
MC-017	Knee Energy Harvester with Variable Transmission from Walking	Invention	Chan Hugo Hung Tin
MC-018	Robotics for Automatic Operation in Indoor Horticulture Farms	Invention	Su Man Ngo Rocco/ Lau Chun Kit/ Man Cheuk Ying Tiffany/ Au Tsz Him Vincent
MC-019	Prolet	Invention	Ho Kar Man/ Yeung Hoi Ki/ Cheong Tsz On/ Cheng Tsz Tsun/ Chan Yuk Lin/ Wong Yun Jing

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Information Technology

Project Code	Project Name	Category	Name of Participant(s)
IT-016	AI Presentation Training System	Invention	Ma Yu Jun/Chan Yan Lung/ Wong Long Kiu/ Tsang Yui Chung
IT-017	Customer Intelligence Analytics Platform (Smart Shop)	Invention	Yeung Man Kit Jacky/ Yeung Yik Man/Yu Chi Wai
IT-022	Face Untouchable	Invention	Tse Man Yan/Ng Tim Ying
IT-027	Deep Learning Technology for Dyslexia	Invention	Fung Ka Yan
IT-029	Smart Face Attendance System	Invention	Cheng Chi Kit/ Lau Man Chun/ Kwong Chun Him
IT-031	Smart Workbench Lamp	Invention	Priyank Sharma
IT-032	Milky Assistant	Invention	Leung Yee Ting
IT-033	Storyland	Invention	Lam Wai Kit/Lee Ho Ming
IT-034	Intelligent driver health assessment system based on the optical fiber interferometer	Invention	Yu Jianxun/Chen Shuyang/ Qu Jiaqi
IT-036	Trends in IT Online Education	Research Thesis	Siyang Hao/Xinyu Huang/ Ruini Huang

Finalist — Entrepreneurship

Entrepreneurship Proposal		
Project Code	Project Name	Name of Participant(s)
EP-015	Researchchain	Chen Ying Teng/ Yu-Ming Liao
EP-023	Aimimi	Cheung Cheuk Nam Janson/ Chan Wai Kit/ Li Yan Lap / Choi Chun Lok/ Kwok Chun Hei / Au Tsz Pok Terrence
EP-025	Genetic Portrait Platform	Qing Yu Hao/Li Rui Kang/Che Li Jia/Li Jing/Li Jing/Miao Xin Yao/ Wang Xue Ying/Zhang Yuan Zheng/Zhou Si Yuan/Pei Yu/Yang Shuo/Zhang Cai Bin
EP-028	Genetic Testing-Based Intelligent Health Data Management Platform	Chen Guolan/Justin Tubbs/Li Zixuan/Wan Hun Ang
EP-031	INNOCHAT - An AI Speech Therapist	Cheung So Yee/Chan Lee Yan / Dixit Tratik/Zou Xiang / Chu Wing Hang /Mak Lai Hang/ Chan On Ying Angel
EP-041	Multifunctional Polyethylene Nano Membrane - GP Nano	Gu Qiao/Li Yuhe/Chen Kexin/ Xiao Yicong
EP-047	Herbioust	Lee Hin Lam/Choi Pui Ki/Tsang Cheuk Ying/Lo Suet Ching/ Lo Sonia Wing Fung

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Entrepreneurship Proposal

Project Code	Project Name	Name of Participant(s)
EP-059	Emcore Protection - Ventiguard	Lee Hin Yee/Wong Ho Yee/Wong Yat Hei/Sit Chun Him/Dai Yongxin
EP-061	A Novel Energy Free and Environmentally Friendly Cooling Paint for Building Applications	Zhu Yihao/Lin Kaixin/Chen Siru
EP-069	Probe -based Pathogen Detection End-System and Cloud Platform	Gong Zifan/Jiang Yiqi/Li Yinhu/Li Shiyong/Qu Yang/Feng Yi/Chen Yanjun/Li Zhiyuan/Qiu Wanting
EP-081	Time Bank for Greater Bay Area	Wu Zeyu/Jiang Wen/Zhou Chongjin/Feng Zechu
EP-092	Electricity-free Smart Cooling Coating	Yang Ning/Fu Yang

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Startup

Project Code	Project Name	Name of Participant(s)
SU-011	Renew	Chu Yung Kit/Chan Hei Man/ Wu Hao Xin
SU-013	APRINT- 3D PRINTING FOR STEM E DUCATION	Chui Cheuk Long/Tang King Hung/ Kwong Hing Tim
SU-016	TEE.AI- Bio-data coding &AI Learning Platform Solution	Leung Kwan Cheung /Wong Wang Lik/Lam Ting Fai /LAM Alexander
SU-018	Probiotics protected by Aerospace Material	Gu Yinlin/Yu Xuanjie/Chang Jinhui/ Dr. Jin Yong
SU-019	Smart Temperature Screening Solution	Wong Kwan Long/Chin King Wei/ Chong Kelly Yan Yee/ Prof. So Hau Tue Richard/Chan Tsz Tai Teric
SU-021	FJ005	Lee Max Jwo Lem /Ng Hoi Fung/ Wen Weisong/Chan Wing Hei jasua/ Hsu Li Ta
SU-024	ARGUS Notes	Yeung Wing Ching Vinnci/ Li Chin/ Wang Xinqi
SU-026	Look4kol	Kwok Tsung Yeung /Chan Po Lam/ Wong Kai Yin
SU-028	MG Medcare Magnesium Wound Dressing	Kwok Tsung Yeung
SU-031	Invisible Acoustics Audio Furniture	Chan Kam Ho/Cheung Ngai Hang, Henry/ Lee Pak Yu, Patrick
SU-032	HONGKONG BAUHINIA TCM LIMITED	Tian Yuan Yang/Zhou Wu
SU-033	SeniorDeli	Cheung Ka Wing/Chow Mei Yee

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Social Enterprise / Cultural and Creative Services

Project Code	Project Name	Name of Participant(s)
SC-013	Legal Access	Cho Natalie/Lung Chun Ngai Darren
SC-016	Snaildy Education	Law Wai Yip/Lau Lok Kin
SC-020	Ecolend	Li Kwok Wing/Hung Tsz Chiu Solomon
SC-023	Go! C9	Tseng Tsz Ching Winter/Ng Song Fang Janine
SC-026	Never too late	Ng Sum Yin/Lai Nok Ching/Chan Yu Shan
SC-034	Hollo Integrated Care Platform	Cameron Xavier van Breda /Ajit Krishna Namakkal Raghavendran/ Jothi Saranya Prakash /Su Hyun Cho
SC-035	Retro Classics	Hong Yuh Dong/Lam Ip Man/Li Yichen/ Lam Hok Juan/Yang Woojeong/Yanshree
SC-040	BlesX	Li Hsin Huai/Yeung Wing Ching Vinnici/ Lam Ching Long/Wong Pet Yang
SC-041	Health Plus	Fung Kwong Chiu/Au Kam Hei /Mok Yim To /Zhang Xin/Chim Ho Yim / Tai Tsz Ho Jacky
SC-047	Go Live	Wong On Yan/Luk ngai Ming Maisie/ Wong Hing Wai/Yang Mu Hua
SC-050	Best Value	Ng Hoi Kam/Lam Pui Yi/Yip Pui Sze/ Ng Yim Hung/Pang Chee Tsun Marcus/ Yue Karen Ashley
SC-052	Time to Gold	Hong Yuh Dong/Yeung Ming Chu

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Upcoming Events

National Competitions

Tentative Schedule



Held in mid-October (Location: Nanchang, Jiangxi)



Held in early/ mid-October (Location: Sichuan)



Held in the Beijing-Hong Kong Fair (Location: Hong Kong)

Exhibition

After the above national competitions, the Exhibition will be held at the Science Park / Cyberport and some Universities/Institutes , details will be announced in November, 2021.



總部

地址：香港銅鑼灣19-23號健康大廈13字樓

電話：2576 4642

電郵：hkngca@newgen.org.hk

網址：http://www.newgen.org.hk

科學創意中心

地址：新界西貢對面海區康健路21號

電話：2792 3639

電郵：sic@newgen.org.hk

網址：http://www.newgen.org.hk

創新及創業中心

地址：香港科學園12W大樓2樓251室

電話：25281993

電郵：iec@newgen.org.hk

網址：http://www.newgen.org.hk



香港新一代文化協會創新及創業中心



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協辦機構 Co-organizers :



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