## 50<sup>th</sup> International Exhibition of Inventions Geneva CityUHK's winning projects

Awards	Company Name	Inventors and Team	Project
		members	- Company of the Comp
Special Prize	City University of	Prof. Freddy BOEY	PRISTINZ Anti-thermal
and Gold Medal	Hong Kong	Office of President	Glass
		City University of Hong Kong	
		Prof. GOH Chin Foo	
		Knowledge Transfer Office	
		City University of Hong Kong	
Gold Medal	Cimple	<b>Prof. CHEN Ting Hsuan</b>	Quantitative Rapid Test
with	Biotechnology	Mr. HARTANTO Hogi	for At-home Screening
Congratulations	Limited, Hong Kong	Miss LI Jiaheng	and Management of
of the Jury	Centre for Cerebro-	Dr. LIU Wengang	Personal Healthcare
	cardiovascular	Department of Biomedical	
	Health Engineering	Engineering	
	(COCHE), InnoHK	City University of Hong Kong	
	City University of	Prof. CHUNG Shu Hung	Innovative Gate Drive
	Hong Kong	Henry	Technology:
		Mr. TANG Ho Tin	Incorporating Self-
		Department of Electrical	adaptive Gate Driving,
		Engineering City University of	Health Monitoring, and
		Hong Kong	Crosstalk Mitigation for
			Wide Band Gap Devices
			Prevalent in Modern
	C. II	D C L L HO	Energy Systems
	City University of	Prof. Johnny HO	Integrated Reactor for
	Hong Kong	Miss YIN Di	Synergistic Solar-driven
		Miss CHEN Mengxue	Water Purification and
		Dr. CHEN Dong	Hydrogen Generation
		Dr. QUAN Quan Department of Materials	
		Science and Engineering	
		City University of Hong Kong	
	City University of	Prof. Jason LAM	S.M.A.R.T. and Green
	Hong Kong	Mr. Qingguo LE	System to Recycle E-
	Tiong Kong	School of Energy and	waste for Valuable Metal
		Environment	Recovery
		City University of Hong Kong	recevery
	City University of	Prof. Jian LU	Nano-Engraved Sensor
	Hong Kong, Hong	Department of Mechanical	Detection System for
	Kong Branch of	Engineering	Rapid Detection of CVD
	National Precious	Department of Materials	Biomarkers and Early
	Metals Material	Science and Engineering	Diagnosis of
	Engineering	Department of Biomedical	Cardiovascular Diseases
	Research Center	Engineering	
	(NPMM), LuMAT-	Department of Biomedical	
	SERS Limited*,	Sciences	
	Hong Kong Centre	City University of Hong Kong	
	for Cerebro-	Dr. Junda SHEN	
	cardiovascular	Dr. Binbin ZHOU	
	Health Engineering	Dr. Shaofei LI	

	(COCHE), InnoHK	Mr. Yunqin ZHANG	
	(COCIL), Illiorik	Department of Mechanical	
		Engineering	
		City University of Hong Kong	
		Prof. Yangyang LI	
		Department of Materials	
		Science and Engineering	
		Department of Mechanical	
		Engineering	
		City University of Hong Kong	
Gold Medal	City University of	Prof. ZHU Zonglong	EcoNexus: InLight
	Hong Kong	Mr. WANG Ning	Perovskite—Sustainable
		Mr. YU Zexin	Indoor Solar Cell System
		Dr. ZHANG Chunlei	for IoT Self-powered
		Mr. VANIN Francesco	Applications
		Mr. QIAN Liangchen	
		Dr. GAO Danpeng	
		Dr. WU Xin	
		Department of Chemistry	
		City University of Hong Kong	
	City University of	Prof. LIU Chunhua	Integrated Wireless
	Hong Kong	Dr. LIU Yuxin	Motors
		Dr. DONG Zhiping	
		Dr. HUANG Rundong	
		Dr. LIU Senyi	
		Mr. CHEN Yong	
		School of Energy and	
		Environment	
		City University of Hong Kong	
	City University of	Prof. Derrick C.Q. JIANG	Low-altitude Economy
	Hong Kong	Mr. B. ZHANG	Boost: Efficient and
	Hong Kong	Mr. C. CHEN	Lightweight Wireless
		Mr. X.S. WANG	Energy Harvesting
		Mr. Y.B. WANG	
			System for Unmanned
		Dr. L.P. MO	Aerial Vehicle
		Department of Electrical	
		Engineering City University of	
	Gir II i i c	Hong Kong	N. 10
	City University of	Prof. Pui-Chi LO	Novel Oxygen-
	Hong Kong	Prof. Kwan Ting CHOW	Economizing
		Dr. Feijie XU	Photosensitizer: Zinc(II)
		Dr. Meijun WANG	Phthalocyanine
		Dr. Eunice DOTSE	Substituted with NO-
		Department of Biomedical	releasing Moieties for
		Sciences	Enhanced Photodynamic
		City University of Hong Kong	Therapy against Hypoxic Tumours
	City University of	Prof. LIU Chunhua	Portable Parallel Elastic
	Hong Kong	Mr. WANG Tianci	Powered Hip–Knee
	1106	Mr. WEN Hao	Exoskeleton with
		Mr. CHEN Yong	Variable Stiffness and
		Mr. ZHANG Bowen	Self-alignment
		Mr. ZHAO Guoqiang	Mechanism
		MII. ZIIAO Guoqialig	1VICCHAIHSIII

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		School of Energy and	
		Environment	
		City University of Hong Kong	
		Prof. YU Feng	
		Nantong University	
	City University of	Prof. Jin SHANG	Portable Self-cleaning
	Hong Kong	Dr. Tianqi WANG	Nitric Oxide Generator
		School of Energy and	
		Environment	
		City University of Hong Kong	
		Prof. Zhi NING	
		The Hong Kong University of	
		Science and Technology	
	City University of	Prof. Shien-Ping FENG	Water- and Heat-
	Hong Kong	Prof. Wei-Ting WANG	activated Dynamic
		Dr. Sheng-Jye CHERNG	Passivation for
		Dr. Chih-Chun CHUNG	Perovskite Photovoltaics
		Dr. Yu-Ting HUANG	
		Department of Systems	
		Engineering	
		City University of Hong Kong	
	E-VITY LIMITED*	Prof. Juan Antonio ZAPIEN	Highly Stable Optical
		Miss KWONG Yee Man	Cavity
		Dr. Md Rashedul HUQE	
		Department of Materials	
		Science and Engineering	
		City University of Hong Kong	
Silver Medal	Alcarbo	Mr. NG Pok Him	Nanobubble Flat-panel
	Technologies	Dr. CHEUNG Yan Chu	Photobioreactor
	Limited*	Dr. CHAN Kwan Wai	
		Alcarbo Technologies Limited	
	CAT Limited*	Prof. Michael K.H. LEUNG	Nano-Photocatalytic
		Dr. Yingguang ZHANG	Coatings for Marine and
		Dr. Jinsong ZHOU	Built Environments:
		Dr. Wei XIONG	Antifouling and
		Miss Keda CHEN	Anticorrosion, Rust
		Miss LEUNG Tsz Kei	Removal and
		Miss TANG Qinglan	Lubrication,
		School of Energy and	Antibacterial and Self-
		Environment	Cleaning
		City University of Hong Kong	
	City University of	Prof. Kening ZHU	Devices and Systems of
	Hong Kong	Mr. Haichen GAO	Inducing Pain Sensations
		Dr. Shaoyu CAI	in VR Environments
		School of Creative Media	Through Thermal Grill
		City University of Hong Kong	Illusion (TGI)
	City University of	Prof. ZHANG Zijun	New-generation
	Hong Kong	Mr. ZHAO Xinuo	Artificial Intelligence
	TIONS IXONS		
	Tiong Rong	Ms. WANG Liang	System for Day-ahead
	Trong Rong	Ms. WANG Liang Department of Data Science	System for Day-ahead Full-sequence Wind
	Tiong Rong	Ms. WANG Liang Department of Data Science City University of Hong Kong	System for Day-ahead Full-sequence Wind Power Forecasting

City U	Jniversity of	Prof. Ray CHEUNG	S-RISC-V: Lightweight
Hong	Kong	Prof. Alan LAM	Secure Processor
		Dr. Gaoyu MAO	Architecture Prototype
		Dr. Guangyan LI	and Application
		Mr. Jinfa HONG	11
		Mr. Bohao ZHANG	
		Mr. Zekai ZHANG	
		Dr. Yao LIU	
		Department of Electrical	
		Engineering	
	T	City University of Hong Kong	T 10
1 -	Jniversity of	Prof. Linqi SONG	Training And Operating
Hong	Kong	Mr. Sichun LUO	Neural Network-Based
		Dr. Yinqiao LI	Ranking Model
		Mr. Guanzhi DENG	
		Department of Computer	
		Science	
		City University of Hong Kong	
City U	Jniversity of	Prof. Guangyu ZHU	Ultrasound-activatable
Hong	•	Dr. Gongyuan LIU	platinum-based
	C	Mr. Zhao YUE	anticancer agents
		Department of Chemistry	
		City University of Hong Kong	
City I	Jniversity of	Mr. Qixuan ZHENG	Effective Image
1	Kong, Centre	Prof. Hong YAN	Matching Using
	telligent	Department of Electrical	Hypergraph Models
	dimensional	•	Trypergraph Wodels
		Engineering City University of	
	Analysis	Hong Kong	
	DA), InnoHK	D C L/HOO D I	T . 11' . 3.6' . (1 ' 1'
	BIOCHIP	Prof. KHOO Bee Luan	Intelligent Microfluidic
Limite	ed*	Dr. LIAO Junchen	Chip Platform for
		Mr. ZHU Mingze	Regenerative Medicine
		Mr. ZHANG Linghan	and Liquid Biopsy
		Mr. HE Qiuyang	Screening
		Mr. XIE Yuxiao	
		Department of Biomedical	
		Engineering	
		City University of Hong Kong	
SeaNe	et Cable	Prof. Moshe ZUKERMAN	Towards a Smarter,
	ing and Design	Prof. William MORAN	Connected World:
	any Limited*,	Prof. Yanni SUN	Automatic, Intelligent
_	e for Intelligent	Prof. Yu WANG	and Reliable Submarine
	dimensional	Prof. Gang WANG	Optical Cable Path and
	Analysis	Prof. Felipe CUCKER	System Design
	DA), InnoHK	Prof. Jun GUO	System Design
CIM	, illioitik	Dr. Xinyu WANG	
		1	
		Dr. Tianjiao WANG	
		Dr. Qing WANG	
		Dr. Chao GUO	
		Dr. Elias TAHCHI	
		Mr. Fahan CHEN	
		Mr. C. F. LEUNG	
		Mr. Shuhong LIN	

	Miss Jiahe XU	
	Department of Electrical	
	Engineering	
	City University of Hong Kong	
	Prof. Zengfu WANG	
	Northwestern Polytechnical	
	University	
SmartHeart	Prof. Zuankai WANG	Smart Wearable
Limited*, Hong	The Hong Kong Polytechnic	Microneedle Device:
Kong Centre for		Effortless Precision Drug
Cerebro-	University	Delivery
cardiovascular	Prof. Yuanting ZHANG	Belivery
	The Chinese University of	
Health Engineering	Hong Kong	
(COCHE), InnoHK	Dr. Xiao YANG	
	Hong Kong Centre for	
	Cerebro-Cardiovascular	
	Health Engineering	
	(COCHE)	
	Miss Zijun LlU	
	Miss Ting XIANG	
	Department of Biomedical	
	Engineering, City University	
	of Hong Kong	
	Hong Kong Centre for	
	Cerebro-Cardiovascular	
	Health Engineering	
	Dr. Nan JI	
	The Chinese University of	
COLAD E Taal	Hong Kong Prof. Wei WU	Officia na Elactica
SOLAR.E Tech		Offshore Floating
LIMITED*	Mr. Fuxiang LI	Factory for Electricity-
	Dr. Zengguang SUI	water-food Coproduction
	Dr. Yunren SUI	
	Dr. Zhixiong DING	
	School of Energy and	
	Environment	
	City University of Hong Kong	
STRELI Technology	Prof. Lishuai LI	ECO-AI: Energy and
Limited#	Department of Data Science	Carbon Optimization
	City University of Hong Kong	with AI for Industry
	Prof. Way KUO	
	Hong Kong Institute for	
	Advanced Study	
	City University of Hong Kong	
	Prof. Xiaohua JIA	
	Department of Computer	
	Science	
	City University of Hong Kong	
	Dr. Xinyu HE	
	•	
	Department of Data Science	
	City University of Hong Kong	

	Taikangnuo	Prof. HE Jufang	RodentEpiNet: AI-
	Biotechnology	Mr. REN Junming	Empowered Recognition
	Limited*	Mr. XIAO Zhoujian	and Analytics for
		Dr. HE Ling	Behavioural Phenotype
		Department of Neuroscience	of Epilepsy in Rodent
		City University of Hong Kong	
Bronze Medal	City University of	Prof. Freddy BOEY	Breath A.I
	Hong Kong	Office of President	
		City University of Hong Kong	
		Prof. LI Xinke	
		Department of Data Science	
		City University of Hong Kong	
		Prof. GOH Chin Foo	
		Ms. Valerie YEO	
		Knowledge Transfer Office	
		City University of Hong Kong	
		Prof. GAO Yunfeng	
		CityUHK Academy of	
		Innovation	
		City University of Hong Kong	
	City University of	Prof. LY Thuc Hue	Engineering Surface
	Hong Kong	Dr. HUANG Lingli	Wrinkles to Modulate
		Dr. THI Quoc Huy	Electrical and Optical
		Mr. CHEN Honglin	Properties for
		Department of Chemistry	Nanodevices
		City University of Hong Kong	

<sup>(\*)</sup> The award-winning teams under HK Tech 300, CityUHK's large-scale flagship innovation and entrepreneurship programme

Collaborative project through participation in the competition by Drainage Services Department

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Silver Medal	City University of	Prof. LEE Patrick Kwan Hon	CRISmart - CRISPR-based
	Hong Kong,	Dr. LIM Chee Kent	Smartphone Microbial
	Drainage Services	School of Energy and	Assay for Rapid Testing
	Department ##	Environment	
		City University of Hong Kong	
		Ms. LIEW Shiau Wei	
		Prof. KWOK Chun Kit	
		Department of Chemistry	
		City University of Hong Kong	

<sup>(##)</sup> The invention is jointly developed by CityUHK and Drainage Services Department

Conaborative pro	oject through partici	pation in the competition by Lii	ignan University
Silver Medal	City University of	Prof. Si-Zhao QIN	A Multi-time-scale Model for
	Hong Kong,	Lingnan University	Day-ahead Forecasting of
	Lingnan	Prof. Lishuai LI	Passenger Travel-time and
	University**	Prof. Yining DONG	Destinations Distribution
		Dr. Yiren LIU	
		Department of Data Science	
		City University of Hong Kong	

<sup>(#)</sup> A CityU spin-off (formed by CityU staff and students to champion the commercial exploitation of CityU IPs

(\*\*) The invention is jointly developed by CityUHK and Lingnan University