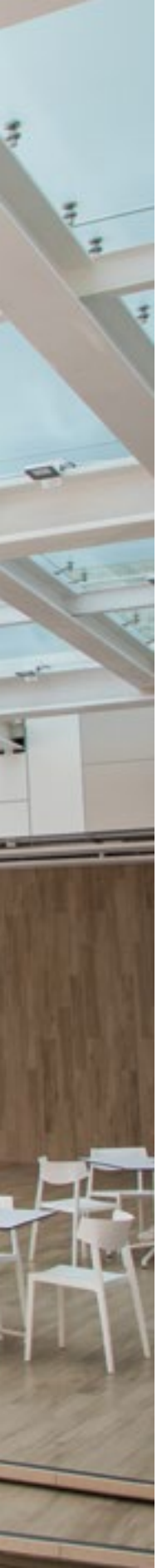
香港浸會大學
HONG KONG BAPTIST UNIVERSITY

Knowledge Transfer Office
知識轉移處

HKBU
Start-Ups

INNOVATION

Start Your Innovation Here!



Contents

Introduction

About KTO

Established in 2009, HKBU Knowledge Transfer Office (KTO) has been at the forefront of fostering successful collaborations between academia and industry. Our dedication to knowledge transfer has yielded tangible outcomes, including commercialised inventions and impactful partnerships.

Over the years, we have built a solid track record of achievements, consolidating our position as a trusted facilitator of innovation and collaboration. We facilitate the transfer of expertise and technology to benefit both the university and the wider community. Supported by our Advisory Committee, we have made significant contributions to university-wide initiatives and the advancement of knowledge transfer.

Life Sciences and Healthcare

01

Crimson Vision Technology Limited

"Seeing the unseen — near-infrared organic photodetectors"

Founder

Prof. ZHU Furong

Website

https://www.crimsonvision.com.hk

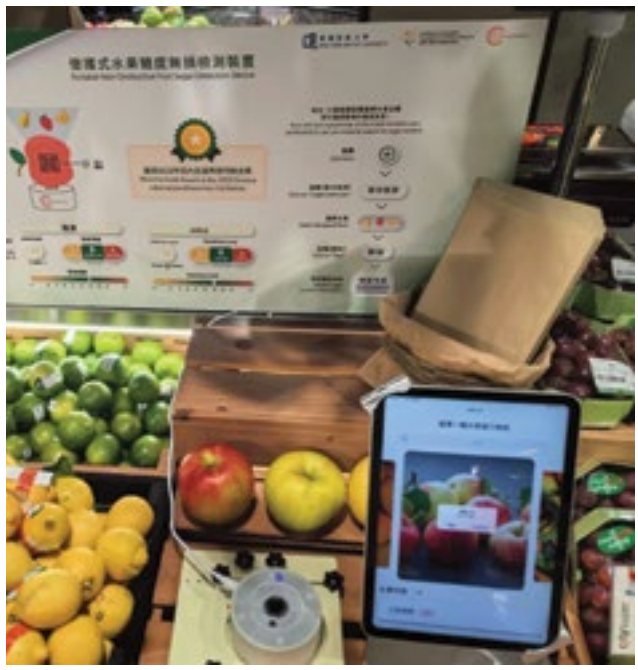
Support needed

Investment	☑
Patent and IP licensing services	☑
Business partners or customers	☑

More Information

Business

Crimson Vision Technology Co., Ltd., founded by Prof. ZHU Furong's team from the Faculty of Science at Hong Kong Baptist University, has received multiple grants from the Technology Start-up Support Scheme for Universities (TSSSU) since its establishment in 2019. The project team began researching visible-blind near-infrared light detection technology for non-destructive fruit quality inspection in 2018, which led to the successful development of an innovative visible-blind near-infrared detector. This detector utilises multi-mode, multi-band light detection technology to non-destructively evaluate fruit attributes such as sugar content, acidity, and water content. As a pioneering technology in China, it is set to address a domestic technological gap, replace similar imported products, and provide cost advantages, with the potential for widespread application across the fruit and vegetable cultivation, storage, logistics, and retail sectors. We are dedicated to the development and advancement of near-infrared detection technology, with a focus on commercialising scientific research findings. Our newly launched non-destructive fruit quality detector measures internal fruit attributes such as sugar content, acidity, and water content. Additionally, we plan to extend our technology to include the rapid detection of authenticity and quality of Chinese medicinal materials. Currently, the company has established partnerships with several farms in Shanghai and Zhejiang and has collaborated with a local supermarket. We are committed to further promoting our technology to provide customers with rapid and precise solutions.



Technology

It is possible to determine the chemical composition of food and organic matter by measuring their absorption of near-infrared (NIR) light. Traditional commercial spectrometers are costly to miniaturise for portable use. Addressing these challenges, Crimson Vision Technology developed advanced high-sensitivity filter-free organic NIR photodetectors. Our work led to the creation of an electrically switchable, band-selective organic photodetector (OPD) capable of high-resolution imaging and artificial vision, with dual-range detection by simply applying a bias voltage. Subsequent funding enabled further development of multimode and multispectral OPDs, including innovative double heterojunction structures to enhance long-wavelength response. Our technology was patented in the USA, Japan, and Chinese Mainland, and validated through extensive fruit quality analysis. Integrating Internet of Things and cloud computing, we developed an app to connect the device to a database, enabling real-time quality profiling of various fruits. This breakthrough paves the way for fast, affordable, and reliable handheld detectors for fruit quality and other applications.

Awards

- Gold Medal at the International Exhibition of Inventions Geneva 2023
- Excellence Award at the 2023 Guangdong-Hong Kong-Macao Greater Bay Area High-value Patent Portfolio Layout Competition
- Gold Medal at the China (Shanghai) International Exhibition of Inventions

02

GastroEase Biotech Limited

健唯生物科技有限公司
GastroEase Biotech Limited

“Unlock precision gut health, pioneer personalised care”

Founder

Prof. ZHAI Lixiang

Business

GastroEase Biotech Limited was founded by a research team from the School of Chinese Medicine at Hong Kong Baptist University. Since 2023, it has received funding from the Technology Start-up Support Scheme for Universities (TSSSU) under the Hong Kong Innovation and Technology Commission for three years. We have developed a patented technology that utilises advanced diagnostic methods to accurately identify gastrointestinal conditions such as Irritable Bowel Syndrome (IBS) and metabolic disorders. This solution provides efficient and precise diagnostic services to healthcare providers, including hospitals and clinics.

Currently, there is a significant gap in the market for tailored diagnostic and treatment options for gut health, as many existing solutions lack personalisation. Our products address this pain point by combining cutting-edge biotechnology with traditional Chinese medicine principles, enabling personalised treatment plans that restore and balance the gut microbiome. This approach not only alleviates symptoms but also targets the root causes of gut health issues, delivering substantial business value to both healthcare providers and patients. We have already partnered with leading public hospitals and research institutions to enhance the quality of care in the industry.

Technology

GastroEase Biotech leverages advanced biotechnology to enhance gut health diagnosis and treatment. Our technology focuses on precise bacterial identification, metabolite analysis, and integrating traditional Chinese medicine principles.

Features & Advantages

- Precision Diagnostics: Our *in vitro* studies enable accurate diagnosis of gastrointestinal disorders like Irritable Bowel Syndrome (IBS) by isolating specific bacterial strains and metabolites.
- Biomarker Validation: We validate biomarkers linked to gut health, ensuring reliability in clinical settings.
- Holistic Approach: Incorporating Chinese medicine-based prebiotics enhances therapeutic outcomes and promotes gut microbiome balance.
- Personalised Solutions: We create tailored treatment plans to meet individual gut health needs.

Applications

Our technology is applicable in clinical settings, aiding healthcare professionals in diagnosing gut-related issues and providing personalised treatments. We have been recognised at international conferences, including the Asia Summit on Global Health 2024 and the FoodMed Conference 2024. We are registering trademarks for our company and products, and negotiating a licence agreement for diagnosing and treating IBS and metabolic disorders. We are dedicated to advancing global gut health through innovative technology and seek collaboration to drive progress in this field.

Awards

- Bronze Medal at the International Exhibition of Inventions Geneva 2024
- Silver Medal at the 8th China (Shanghai) International Exhibition of Inventions and Innovations

Support needed

Investment	☑
Patent and IP licensing services	☑

03

Gihon Biotech Limited

"Harnessing Chinese medicine's power for superior skincare and health solutions starting from Dendrobium skin-whitening products"

Founder

Prof. ZHANG Hongjie

Website

https://www.gihonbiotech.com

More Information

Business

Gihon Biotech was founded by Prof. ZHANG Hongjie from the School of Chinese Medicine at Hong Kong Baptist University. It is now the tenant of Hong Kong Science Park and graduated from the HKSTP Incu-Bio Programme. The company was established in 2016, began operations in 2017 and launched its first product in 2018. We focus on the research and development of personal care products enriched in natural ingredients, especially Chinese Medicine. We are currently committed to the research, development and promotion of whitening and skin care products with natural Chinese herbal ingredients. We have a professional R&D team comprising experts from Hong Kong Baptist University including Professors, post-doctoral fellows and PhD students. Our experienced R&D consultants have been working in the fields of plant medicine and natural products for more than 20 years. At the same time, we have a number of independently developed research patents.

We received funding from the Technology Start-up Support Scheme for Universities (TSSSU) for a total of six years from 2017 to 2020 and 2023 to 2026. Our research and development results and products can be applied to anticancer, antibacterial, anti-inflammatory, skincare, haircare and other personal care fields.

The *Dendrobium* whitening cosmeceutical we are currently developing, which is rich in 'DR2 youth factor', is extracted and synthesised from Chinese medicinal plants based on our research and development processes and requirements. The developed skincare product is suitable for different skin types and fundamentally protects skin from ageing and darkening. At present, eight *Dendrobium* brightening series products have been launched on the market and have been validated by users.

Technology

Gihon Biotech develops innovative skin and healthcare products harnessing natural ingredients and their analogues. We focus on DR2-type stilbenoids found in *Dendrobium* species, particularly *D. officinale* (铁皮石斛) and *D. nobile* (金钗石斛). These compounds significantly reduce oxidative radicals in inflammatory conditions, such as pancreatitis and pulmonary injury, with patents granted in the United States, Chinese Mainland, and Hong Kong, China.

Stilbenoids also show promise for hyperpigmentation therapy by inhibiting tyrosinase activity and tyrosinase-related proteins (TRP-1 and TRP-2) in melanocytes, reducing melanin formation. Our cellular experiments demonstrated that DR2-type stilbenoids suppress tyrosinase activity and TRP levels. These findings were published in the European Journal of Medicinal Chemistry.

Customer feedback indicates no irritation from using DR2-type stilbenoid cosmeceuticals. We hold patents for 'Skin-protection composition containing *Dendrobium*-based ingredients' in the United States, Chinese Mainland, Hong Kong, China, Japan, Malaysia, Singapore, and Taiwan, China with pending PCT applications in Thailand.

Awards

- Silver Award at the Asia International Innovative Invention Award 2018
- Bronze Medal at the Asia Exhibition of Innovations and Inventions Hong Kong 2018
- Silver Medal at International Exhibition of Inventions Geneva 2022
- Excellence Award at the Guangdong-Hong Kong-Macao Greater Bay Area High-value Patent Portfolio Layout Competition 2022
- Silver Medal at the China (Shanghai) International Invention and Innovation Exhibition 2024

Support needed

Investment	☑
Business partners or customers	☑

04 Hong Kong Authentication Centre of Valuable Chinese Medicines Limited

香港名貴中藥檢定中心
HK Authentication Centre of Valuable Chinese Medicines

"Exclusive patents to authenticate valuable Chinese medicine"

Founder

Prof. HAN Quanbin

Website

http://www.hkacvcm.com

More Information

Business

Hong Kong Authentication Centre of Valuable Chinese Medicine was co-founded by Prof. HAN Quanbin from the School of Chinese Medicine at Hong Kong Baptist University and his students. Since 2017, it has received funding from the Technology Start-up Support Scheme for Universities (TSSSU) and the HKSTP Incu-Bio Programme for several consecutive years. We are exclusively authorised by Hong Kong Baptist University to use patented technologies. We developed various innovative patented technologies to provide fast, efficient, and professional authentication services for valuable Chinese medicinal products, such as Cordyceps, Dendrobium, and bird's nest. In addition to authentication services, we also offer safety testing for Chinese medicinal herbs and tailored quality control services for clients, providing technical support for the upgrading of the Chinese medicine industry.

Currently, the Chinese medicine industry faces significant challenges, including the prevalence of counterfeit valuable Chinese medicine, the presence of toxic substances in medicinal materials, and frequent exceedances of pesticide residues and heavy metals. These issues severely undermine the industry's reputation and significantly decrease consumer confidence. Such chaos arises from the lack of professional and reliable authentication services within the industry.

As a result, we collaborate with several well-known companies and departments of the Government of the Hong Kong Special Administrative Region of the People's Republic of China committed to promoting authenticity and providing economical and efficient quality control services for the industry and reputable enterprises. We aim to become a world-class promotional service platform for the Chinese medicine industry, hoping to improve the current chaotic state, thereby restoring consumer confidence in Chinese medicine.

Technology

The Hong Kong Authentication Centre of Valuable Chinese Medicine currently provides quality control services related to Chinese medicinal materials for several well-known enterprises and public institutions. We have four main innovative technologies: polysaccharide markers for Dendrobium officinale and Cordyceps sinensis, oligosaccharide markers for specific polysaccharides in Chinese herbal formulas, oligomer markers for animal-derived Chinese medicines, and peptide markers for the identification of bird's nest and related products. These technologies are patented in various regions, including Chinese Mainland, Hong Kong, China, Macau, China, the United States, Singapore, Malaysia, Indonesia, and Thailand.

On 26 November 2024, our research project, 'Application of polysaccharide as a chemical marker in quality control of saccharide-dominant Chinese medicines: Cordyceps sinensis, a case study' received the Excellent Research Award from the Hong Kong Health and Medical Research Fund (HMRF) at the Health Research Symposium 2024, organised by the Hong Kong Academy of Medicine.

Awards

- Gold Medal at Asia Exhibition of Inventions Hong Kong 2018
- Gold Medal at International Exhibition of Inventions Geneva 2021
- Silver Medal at International Exhibition of Inventions Geneva 2024
- Bronze Medal at the China (Shanghai) International Exhibition of Inventions and Innovations 2024

05

Hydroverse Company Limited

"Revolutionising the future of immersive healing experience"

Founder

Prof. Anna Lai-yin QIN

Website

https://www.hydroversedesign.com

More Information

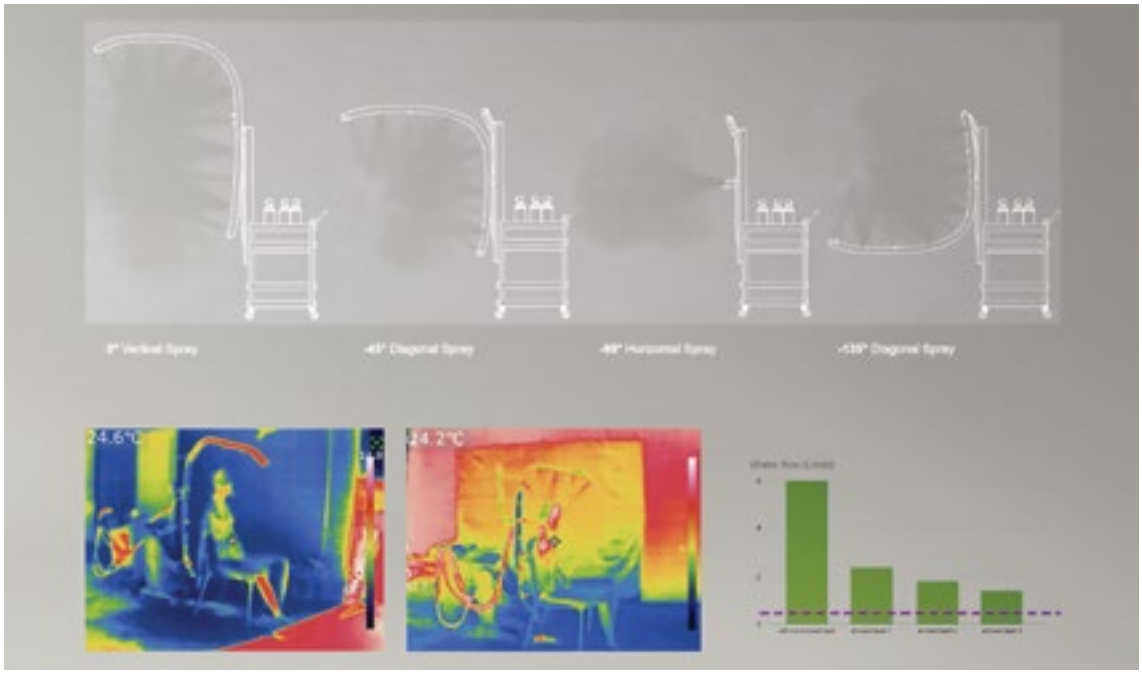
Business

Hydroverse Company Limited is a dynamic start-up founded by Prof. Anna Lai-yin QIN, Assistant Professor from the Academy of Visual Arts, School of Creative Arts at Hong Kong Baptist University in 2023. We focus on revolutionising the future of immersive wellbeing using the healing power of H2O while implementing sustainable use of natural resources. We specialise in developing innovative and accessible solutions that enhance independence, convenience, and well-being.

Our business strategy centers on addressing the underserved market of accessible bathing solutions. Our current product line features a smart water misting shower system with a voice-controlled interface. We aim to expand toward safe and automatic full-body cleansing assistive tools to capture a broader market share in the assistive technology sector.

We are committed to inclusive design principles, ensuring that our products are user-friendly and accessible to people of all abilities. Our commercial integration strategy focuses on collaborations with property developers for accessible housing projects, while our healthcare partnerships establish strategic alliances with medical facilities requiring specialised bathing solutions.

We actively develop strong relationships with elderly homes, rehabilitation centres, hospitals, property developers, and other key market segments to provide tailored solutions that meet their specific needs. Our roadmap includes expanding into the broader hydrotherapy products that can offer therapeutic benefits and promote relaxation for our customers.



Technology

Hydroverse Company Limited specialises in an innovative water misting shower system that revolutionises the bathing experience for individuals. Our proprietary AuraMist system employs advanced dual-pump water misting technology with precision engineered nozzle arrays and generates two distinct water delivery modes: the fine misting mechanism employs micro-nozzle technology, creating optimal droplet size distribution for enhanced coverage and reduced water waste. The dual-pump system operates at variable frequencies to achieve precise flow control.

This system enhances showering experiences by providing therapeutic benefits while ensuring accessibility and ease of use. Equipped with AI-enabled voice control, users can operate the system handsfree, promoting independence and convenience. The digital water-mixer maintains precise water temperatures, while the fine misting technique reduces water consumption and enhances skin hydration.

Designed with inclusivity in mind, the user-friendly interface accommodates a range of physical abilities, allowing for easy access for wheelchair users. Our technology is protected by utility patents in Chinese Mainland and Hong Kong, China, ensuring the exclusivity of our unique voice control interface and misting mechanism. By combining technology, accessibility, and sustainability, we offer a friendly solution that significantly improves the bathing experience for individuals with mobility limitations.

Awards

Silver Medal at the International Exhibition of Inventions Geneva 2025

06 Jelumiere Biotech Limited

JELUMIERE
BIOTECH

"Making sun care solutions safe and effective"

Founder

Dr Jenny Chun-yee NG

Prof. Jill Man-ying CHIU

Website

https://jelumiere.com

More Information

Business

Jelumiere Biotech Limited is revolutionising the sun care industry by leveraging advanced biotechnology to develop safe, high-efficacy products featuring patented sunscreen compounds. Co-founded in 2024 by Dr Jenny NG, an elite PhD alumna from the Department of Biology at Hong Kong Baptist University, and Prof. Jill CHIU, an Associate Professor at the same institution. We have secured recognition and funding from HKBU Inno Realisation Fund, Technology Start-up Support Scheme from Universities (TSSSU), HKSTP Ideation Programme and HKSTP Incubation Programme. As global demand for effective sun protection grows, we address key health concerns posed by existing sunscreens. Chemical sunscreens have been linked to endocrine-disrupting and carcinogenic effects, while physical sunscreens offer only limited UV protection. Our patented UV compounds represent a groundbreaking innovation, providing superior broad-spectrum protection while reducing health risks from transdermal absorption of harmful chemicals. Dermatologically tested and formulated for sensitive skin, these products ensure both safety and efficacy. Positioned to capture market interest through both B2C and B2B partnerships, we bridge critical gaps in the sun care industry by offering premium, hypoallergenic products to health-conscious consumers, while licensing its patented technology to skincare manufacturers to enable the development of FDA-compliant formulations. By prioritising safety, efficacy, and user experience, we provide innovative sun care solutions to consumers and manufacturers who values safety and superior broad-spectrum protection.

Technology

Jelumiere's innovative, patented technology combines FDA-approved chemical and physical UV filters into novel, high-efficacy UV compounds that excel in stability and safety. By offering broad-spectrum UV protection while preventing skin absorption, our novel UV compounds eliminate the endocrine-disrupting or carcinogenic concerns of traditional chemical sunscreens, while surpassing the UV limitations of physical sunscreens.

Our patented technology enhances the efficacy of existing FDA-approved UV filters at low cost to deliver a safe and affordable sun care solution. Formulated for hypoallergenic and sensitive skin, our products consider cosmetic factors to enhance texture, usability, and user experience, while providing high Sun Protection Factor (SPF) protection. The incorporation of FDA-approved UV filters streamlines regulatory compliance, lowering application costs for manufacturers (B2B) and strengthening consumer confidence and acceptability (B2C).

Our technology enables seamless integration for manufacturers, reducing switching costs and offering consumers safe, effective sun care.

Awards

- Gold Medal at the International Exhibition of Inventions Geneva 2025
- Silver Metal at the 2025 Silicon Valley International Invention Fair
- Best-Performing Start-Up in the ASGH Project Pitching Session 'Pharmaceutical & Community Health' at the Asia Summit on Global Health

Support needed

Investment	☑
Business partners or customers	☑
Talent acquisition	☑

07

MicroFlow Innovation Limited

MicroFlow

“Revolutionising antimicrobial susceptibility testing to guide precision antibiotic therapy and ensure effective, targeted treatment against resistance”

Founder

Prof. REN Kangning

Website

https://www.microflowinnovation.com

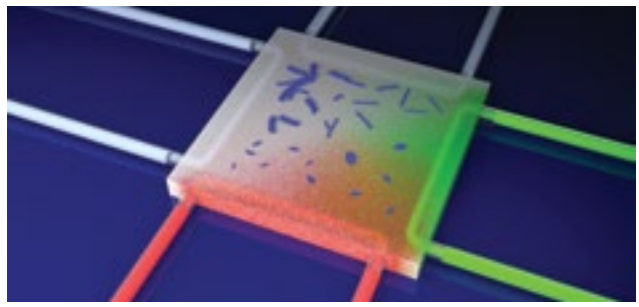
More Information

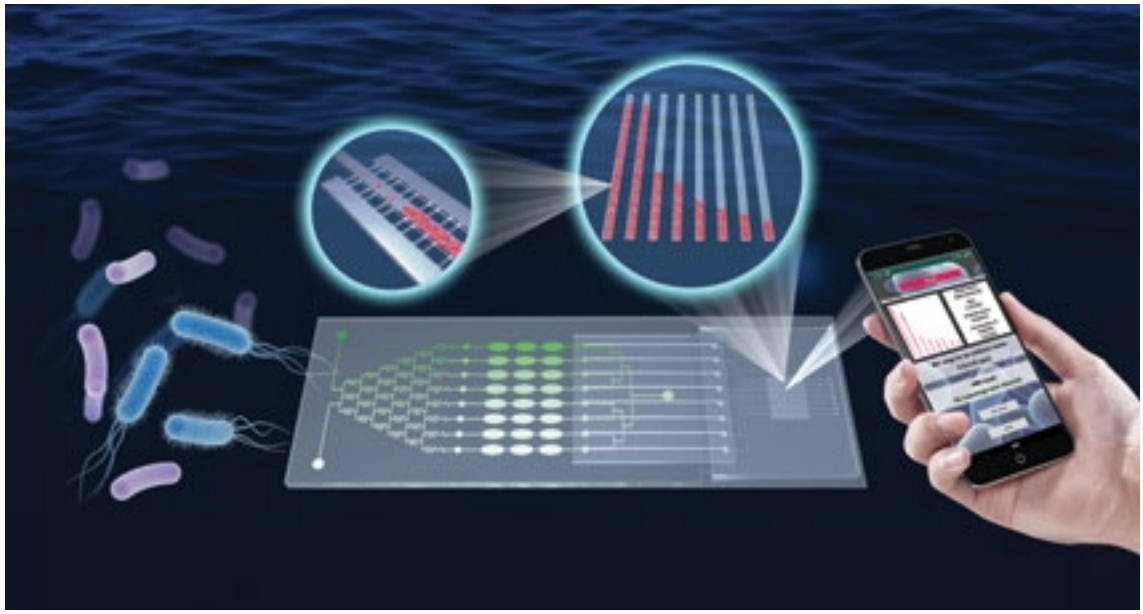
Business

MicroFlow Innovation Ltd., a dynamic enterprise born from the innovative research of Prof. REN Kangning at Hong Kong Baptist University, is dedicated to transforming the landscape of point-of-care tests (POCTs) and advancing the study of drug-resistant bacteria through state-of-the-art microfluidic technologies. Our mission is to commercialise novel rapid antimicrobial susceptibility testing (AST) platforms, poised to offer groundbreaking solutions in the critical sectors of healthcare, food safety, and environmental monitoring.

The rapid evolution of bacterial resistance, exacerbated by the post-COVID era’s respiratory infectious disease outbreaks, advancements in inflammation management techniques for chronic disease treatments, rising food safety standards, and the widespread adoption of One-Health policies, underscores the urgent global need for advanced AST solutions. Current antibiotic prescriptions are largely empirical due to the lack of specific sensitivity data, often relying on broad-spectrum antibiotics. This approach not only reduces the efficacy of targeted treatments but also contributes to microbiota imbalance and resistance accumulation. Furthermore, existing AST methods are time-consuming, making them unsuitable as a pre-prescription step for guiding therapy.

Our two main products are the 'barcode' cell sensor microfluidic AST platform and the hydrogel-based microfluidic AST platform. The 'barcode' cell sensor provides a rapid (able to obtain result within two hours) and easy-to-use solution, with a per-test cost under US$5. More importantly, it is a reliable, affordable, and resource-independent tool for mass screening, particularly vital in clinical, food safety, environmental monitoring, and managing pandemic outbreaks. The hydrogel-based microfluidic AST platform performs simultaneous bacterial identification and AST addresses a critical need in clinical and research settings, offering a solution to the traditionally lengthy AST processes. Additionally, this platform is designed to be compatible with downstream molecular and optical analyses, providing a wealth of information for users.





Technology

MicroFlow Innovation Ltd. advances antimicrobial susceptibility testing (AST) technologies to fulfil the demand of rapid tests for the transition to precision therapy of bacterial infections. Our microfluidic platforms address critical challenges of choosing the right antibiotics in healthcare, particularly in urgent cases, as well as in food safety and environmental monitoring. With a focus on speed, resource independence, and adaptability, our AST platforms consistently deliver rapid and reliable results.

The 'barcode' cell sensor microfluidic platform employs an adaptive linear filter that captures and concentrates bacteria within the device, forming a visible bar for detection and delivering results in about two hours, with a per-test cost under US$5. This rapid platform integrates with a smartphone interface, enabling easy point-of-care testing even in resource-constrained settings. Its combination of speed, affordability, and resource independence makes it ideal for urgent clinical settings and large-scale screening across diverse environments.

Our hydrogel-based microfluidic AST platform supports advanced applications, including complex polymicrobial testing and drug combination analyses, effectively overcoming the limitations of conventional methods. It provides detailed insights through downstream molecular and optical analyses, enhancing both clinical and research applications. With its rapid turnaround time, it ensures timely decision-making in clinical settings, while its capability for single-cell-level detection accelerates AST processes.

Backed by a robust intellectual property portfolio, including multiple patents spanning Chinese Mainland, the United States, and Hong Kong, China, we are poised to lead the market with innovative solutions and drive global efforts to combat antimicrobial resistance.

Awards

- Gold Medal at the International Exhibition of Inventions Geneva 2023
- 2nd Runner-Up at the 'Maker in China' SME Innovation and Entrepreneurship Global Contest – Hong Kong Chapter (MiCHK) 2024 Final
- 2nd Runner-Up at the Global Final Contest of the 'Maker in China' 2024
- First Prize at The 'China Merchants Cup' Creative Innovation and Entrepreneurship Competition – Hong Kong Roadshow 2025

Support needed

Investment	☑
Business partners or customers	☑

08

Nuplex Limited

“Elegantly customisable therapies for complex healthcare”

Founder

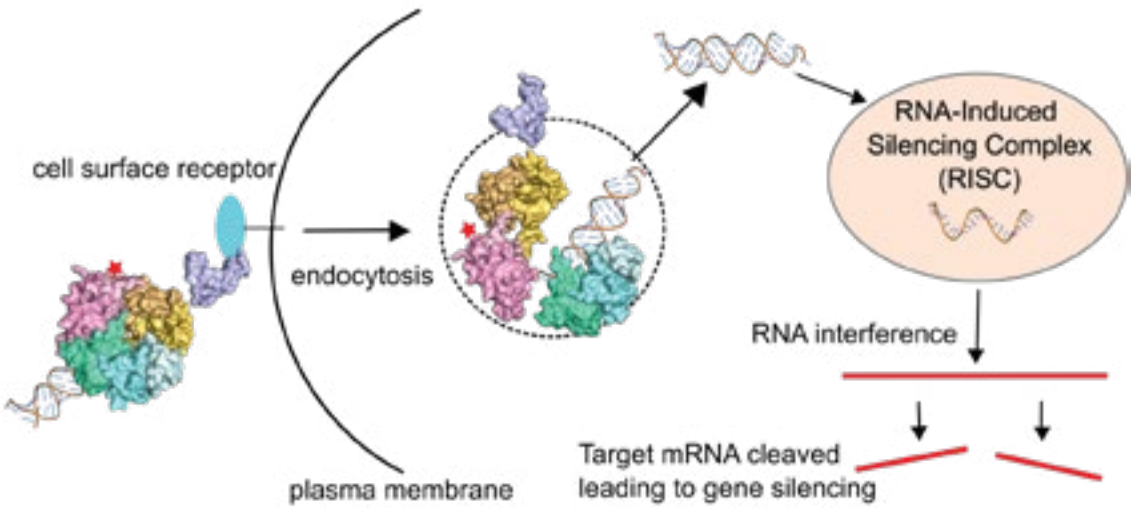
Prof. AIK Wei Shen

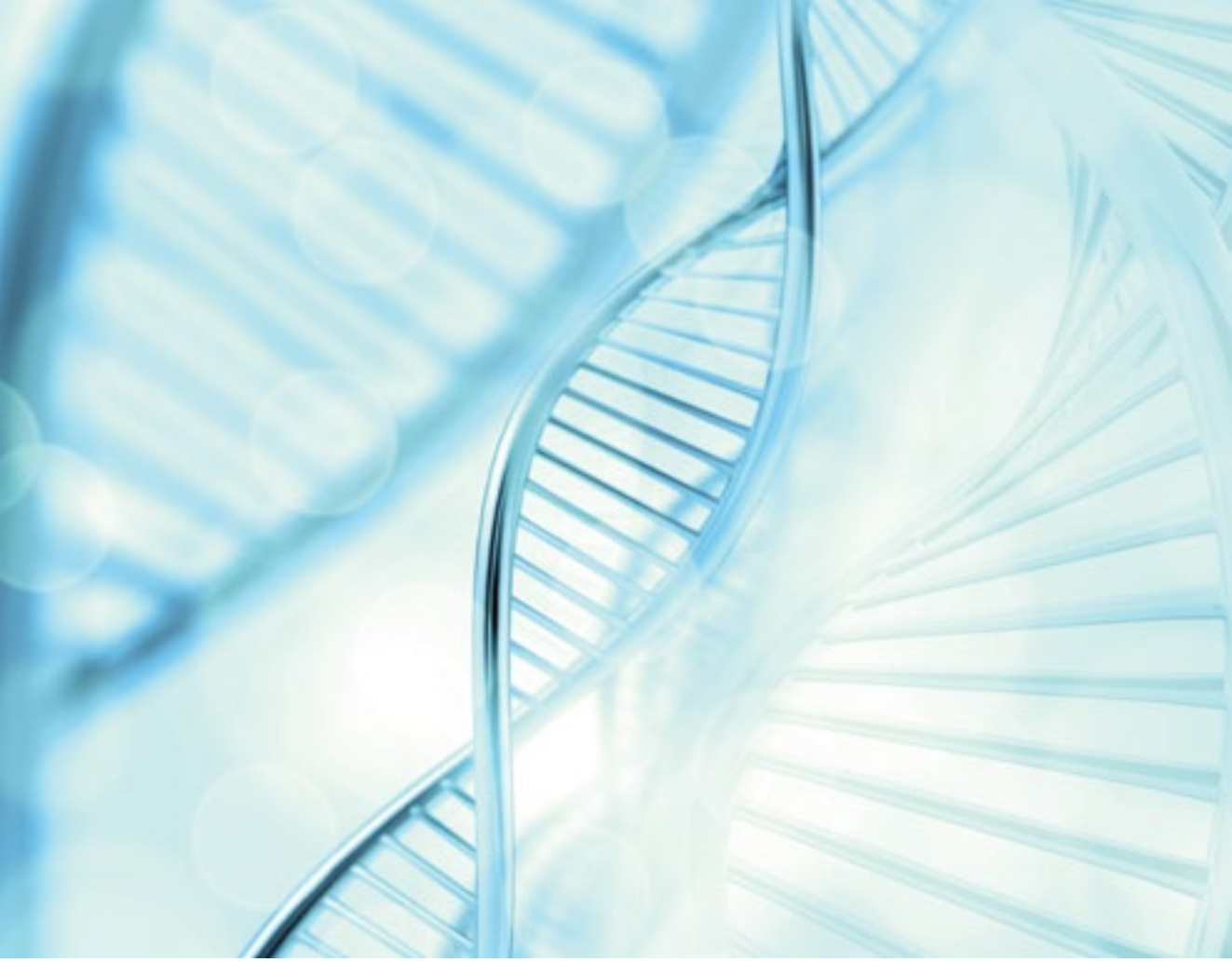
Business

Nuplex is a biotechnology company that aspires to develop personalised RNA therapeutics for gene therapies. We leverage our expertise in macromolecular assembly to create customisable drug delivery platform technologies to treat cancer, viral infections, and orphan diseases. We pride ourselves on designing next generation complex biologics based on three-dimensional structural knowledge with an emphasis on elegance and precision.

Nuplex is a Hong Kong Baptist University (HKBU) spin-off founded by Prof. AIK Wei Shen. He completed his BA in Natural Sciences (Biochemistry) at the University of Cambridge. He then obtained a D.Phil. in chemical biology at the University of Oxford before being further trained in structural biology as a postdoctoral research scientist at Columbia University. His research in the 3D structures and biochemistry of protein-RNA complexes provides the fundamentals for the development of protein-based RNA therapeutics delivery agents.

We have received funding from the HKBU Inno Realisation Fund and the HKSTP Co-Ideation Programme. Through collaboration with investors and industrial partners, we are committed to bringing revolutionary bioengineered technologies to the clinic to benefit patients.





Technology

RNAi therapeutics are a new generation of medicine that offers high specificity, thus resulting in low off-target side effects. Their specificity can be altered by changing the sequence of the RNA drugs, allowing for the possibility of quick development for different targets as well as to cope with target mutations. However, RNAi drug delivery faces multiple hurdles such as crossing cell membrane, degradation, and immunogenicity. Current successful delivery methods mainly use GalNac-conjugation and lipid nanoparticles, which are mainly limited to delivery to the liver.

To broaden and simplify the development of RNAi drug delivery, we developed an *in vitro* reconstituted protein-RNA complex that can deliver RNAi therapeutics into various types of tissues (other than liver) to silence genes for disease treatment. The design of the delivery agent is based on naturally occurring human protein-RNA complexes. Therefore, the delivery agent is expected to be biocompatible, and has advantages in terms of modularity, customisability, and monodispersity for dosage control.

Awards

Gold Medal with the Congratulations of the Jury at the International Exhibition of Inventions Geneva 2024

Support needed

Investment	☑
Talent acquisition	☑

09 Prime Biosensing Technology Limited

"Aims to develop a panel of oncoprotein-specific probes that could be used for labelling and tracing cancer-specific oncoproteins."

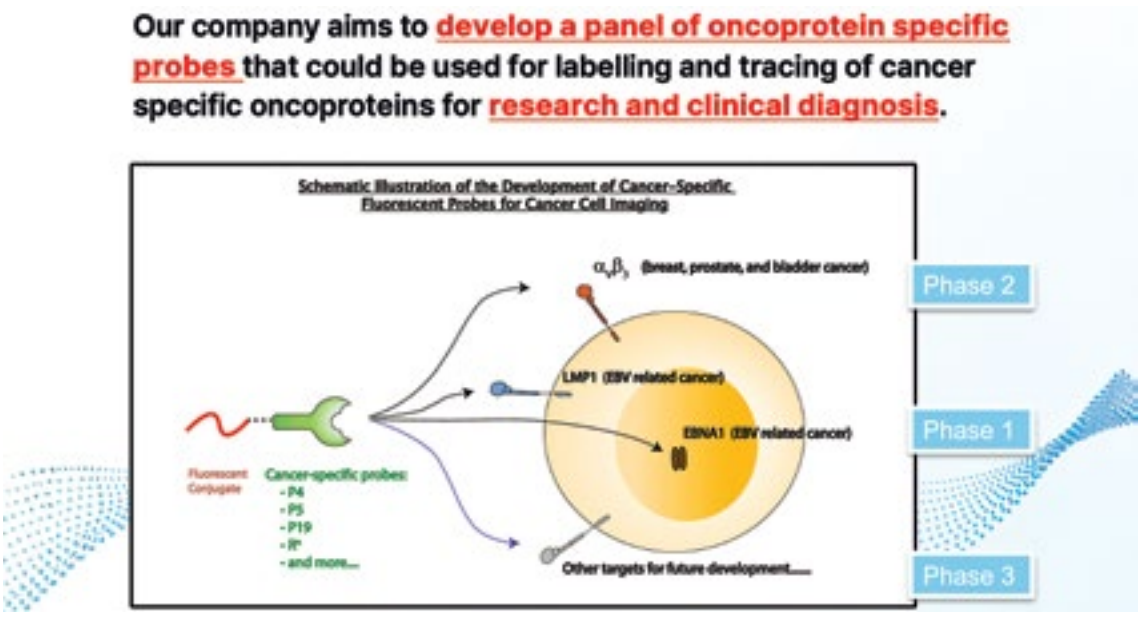
Founder

Dr CHEN Luo

Business

The primary market of our product is research laboratories that need to visualise key oncoprotein in different cancers, but the probes have the potential to be useful in clinical diagnosis. The study of oncoproteins is routinely conducted in cancer research laboratories while a challenge that continues to hamper the successful tracing of oncoproteins is the lack of living cell-compatible reagents that can label the oncoproteins for visualisation. Usually, such labelling is done with antibodies, which have two main drawbacks: they are not compatible for living cell labelling and require long incubation times.

We have previously established protein-specific labelling probes to target the Epstein-Barr virus (EBV) oncoprotein EBV nuclear antigen1 (EBNA1). Our team has shown that our probe can specifically bind to EBNA1 and emit fluorescence signals. In the last reporting period, we completed screening of a panel of solvents used in the probe staining procedure, which offer the optimal staining results to distinguish the EBV-positive nasopharyngeal carcinoma (NPC) cells from the EBV-negative counterparts. We have successfully synthesised more than 100 mg of our protein-specific labelling probes for the cell staining.



Technology

Our company founder, Prof. NaiKi MAK, and our key member hold postgraduate degrees in chemistry, biomedical, or other related fields. Prof. MAK, one of the main contributors to the development of L2, L5, P4 and P5 is a specialist in EBV-related research. His insights into drug design and market needs in the research world set the stage for a successful company focused on developing oncoprotein-targeting reagents. The techniques mastered by our group also help pave the way for a fruitful drug development company. We are currently looking for large laboratories for further R&D and collaboration.

Support needed

Investment	☑
Business partners or customers	☑

10

Sheminfu Limited

SHEMINFU LIMITED
Bless for Wisdom, Bless Evergreen.

"Bless for wisdom, bless evergreen"

Founder

Prof. LI Min

Website

https://www.sheminfu.com

Awards

Silver Medal at the International Exhibition of Inventions Geneva 2024

Business

Sheminfu Limited is committed to tackling growing brain health challenges in modern society. With faster lifestyles and an aging population, memory loss, cognitive decline, and emotional disorders have become widespread concerns. By combining traditional Chinese medicine with modern technology, we develop effective and scientifically backed brain health products to meet increasing demand.

Founded in 2024 by Prof. LI Min, Dean of the School of Chinese Medicine at HKBU, we leverage strong academic expertise and research experience. Supported by the HKBU Inno Realisation Fund, the HKSTP Ideation Programme, and the Technology Start-up Support Scheme for Universities (TSSSU), the company holds multiple patents and has received a Silver Award at the Geneva International Exhibition of Inventions for its work on preventing memory decline linked to neurodegenerative diseases.

Recently, we discovered a natural compound from lemon peel that activates the TFEB/III autophagy-lysosome pathway, inhibits excessive NLRP3 inflammasome activation, and promotes β-amyloid clearance. This innovation offers promising new approaches for Alzheimer's disease treatment and reflects the company's dedication to advancing brain health research and applications.

More Information

Technology

Sheminfu Limited presents Neuro Vital Functional Effervescent tablet, an innovative natural supplement designed for adults aged 40–65. As aging and chronic stress diminish autophagy, toxic proteins and inflammatory mediators accumulate in the brain, accelerating memory loss and cognitive decline. To address this, we incorporate its proprietary lemon peel extract to enhance autophagy, clear harmful aggregates, and support neuronal health. The product's dual functions—removal of toxic proteins and memory support—are achieved by activating the autophagy–lysosome pathway to eliminate β-amyloid and inhibit inflammasome overactivation, while promoting cellular repair and metabolic balance to improve daily memory and mental agility.

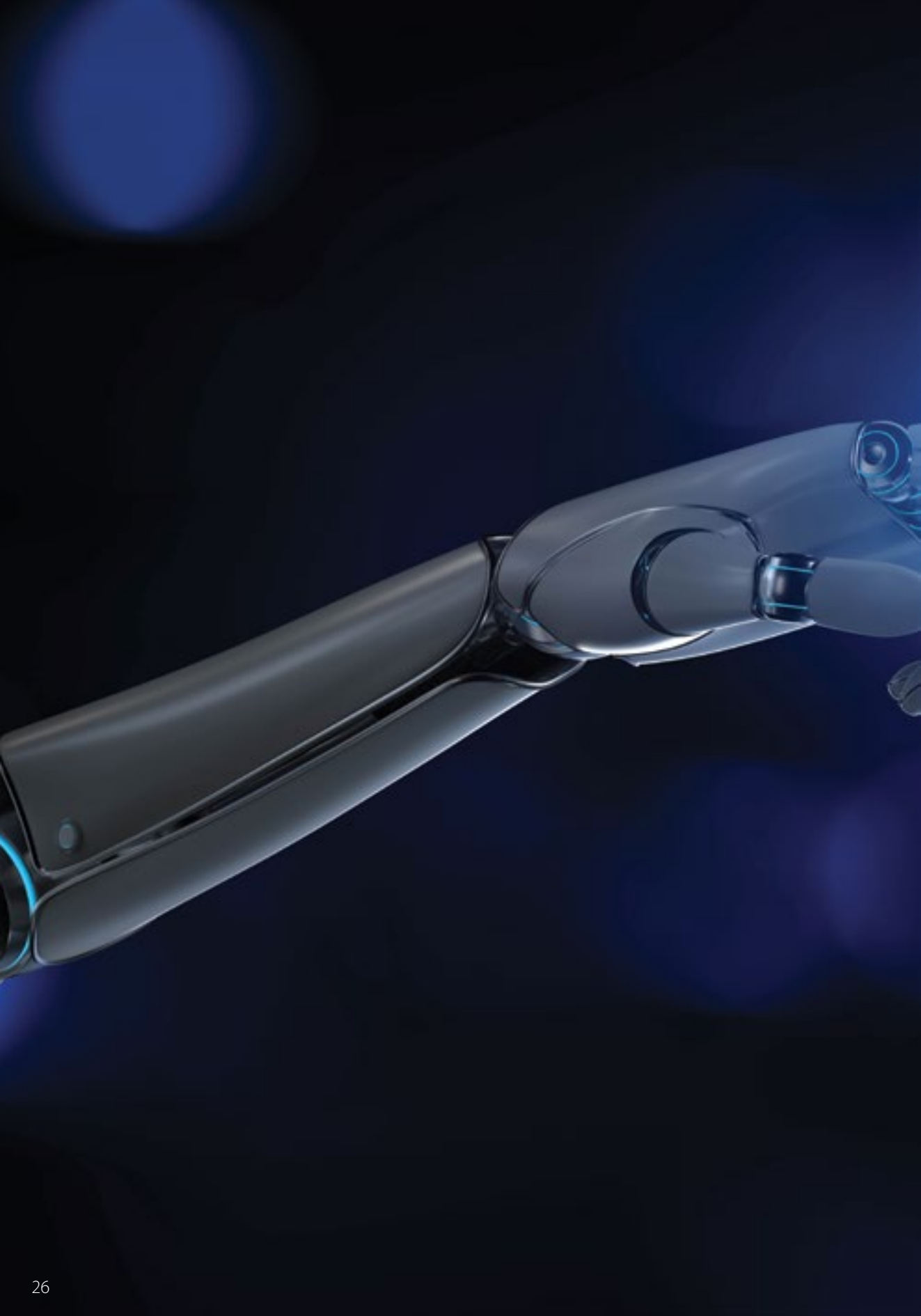
Neuro Vital offers three distinct advantages:

1. Pioneering the application of lemon peel–derived small molecules to modulate autophagy, filling a critical gap in brain health supplements.
2. An effervescent tablet format with a pleasant taste and rapid dissolution, ideal for individuals with swallowing difficulties.
3. A clean-label formula featuring lemon peel extract with vitamins C and B, free from preservatives and artificial colors.

Under identical experimental conditions, Neuro Vital demonstrated a 2 to 3 times increase in protein clearance versus three leading HK–marketed brain health supplements, underscoring its superior efficacy in promoting autophagy and clearing toxic proteins. With its unique mechanism and validated performance, Neuro Vital offers a practical new option for consumers seeking targeted brain health support.

Support needed

Business partners or customers	☑



Artificial Intelligence/ Digital

A.I. Safe Food Limited

A.I. SAFE FOOD LIMITED
人工智能食品安全有限公司

"A novel, non-targeted approach in tackling food fraud"

Founder

Prof. Terence Lok-ting LAU

Website

https://aisafefood.com

More Information

Business

Recurrent incidents of economically motivated adulteration devastate public health, the economy, and society. Complex global supply chains create opportunities for fraudsters, and newly engineered adulterants often evade existing food authentication tests, putting everyone at risk for incidents like the melamine scandal.

A.I. Safe Food Limited offers a proprietary, non-targeted machine learning alerting system to ensure consumer protection. This system uses big data to monitor and flag suspicious samples without prior knowledge or aimless testing, providing a novel approach to food safety management. Initially focused on dairy products, this platform can be extended to various food commodities, including juice, and significantly tackle food fraud.

The product can be packaged as software housed on the customer's server or database, including security-coded commands to standardise data formats, a collaborative database, a proprietary alerting system, and a user-friendly interface for data upload and result download. Alternatively, it can be offered as a subscription service stored on our secure server.

Technology

A.I. Safe Food Limited has developed an AI-powered alerting system for non-targeted detection of food adulteration without prior knowledge of adulterants. It uses a proprietary protocol to convert results from analytical instruments into a standardised data format. The collaborative database, enriched with chemical fingerprints and patterns, accommodates various data types. The system's ensemble machine learning algorithm detects unknown contaminants from historical industrial data. The user-friendly interface allows for data upload and result download.

Following successful research and development through the ITF project, the team is targeting to prototype the alerting system, expand the database, and conduct public trials. Further development will enhance accuracy using other machine learning methodologies, with trials involving milk and other commodities from food companies. The prototype will be refined based on user feedback.

Awards

International Leadership Award from the International Association for Food Protection 2021

Support needed

Investment	☑
Patent and IP licensing services	☑

12 Booguu Company Limited

“Early, rapid fall risk screening and assessment. Remote, proactive fall prevention therapy and rehabilitation.”

Founder

Prof. Jeffrey CHEUNG

Website

https://www.booguu.bio

Patents

CN 106061384 B
US10,307,086 B2
US10,327,671 B2
US12,188,956 B2
EP 3 860 440 B8

Support needed

Investment	☑
Business partners or customers	☑

Business

Booguu Company Limited is a technology spin-off from Hong Kong Baptist University, founded by Prof. Jeffrey CHEUNG in 2016. We specialise in health and wellness solutions using wearables that measure human movement. Our mission is to deliver simple and effective therapeutic care to those experiencing decline in mobility and at risk of fall. The award winning and patented AI analytics provides quantitative analysis of balance, mobility, and strength from everyday movements. The objective insights help patients reduce risk of fall, obtain better therapy outcome, and improve overall physical health.This solution is in use at numerous public hospitals, district health centres, primary care clinics, elderly care providers, and research universities.

More Information

Technology

The technology involved in the solution from Booguu included wearable sensors, AI, machine learning, mobile, edge, and cloud computing. These technology components enable it to measure, assess, and monitor the health and therapy progress of patients. The analysis results are validated against the Gold Standard. This solution is an end-to-end healthcare solution for preventing and reducing elderly falls, and to achieve better outcomes of physical therapy and rehabilitation across community, outpatient, and inpatient settings. The solution is targeted at the physical therapy and rehabilitation market. It is currently in use at several public hospitals and District Health Centres in Hong Kong, China, as well as numerous elderly care NGOs. We are working to expand into Chinese Mainland, Taiwan, China, Southeast Asia, Japan, and North America. Our technology has been granted patents in both Chinese Mainland and the United States.

Awards

- 3 Gold and 1 Silver Medals at the International Exhibition of Inventions Geneva 2017 & 2021
- Gold Medal & Grand Award at the Asia Exhibition of Innovations and Inventions Hong Kong 2019
- TechConnect Business Innovation Award of US TechConnect Summit 2020
- Merit Awards of Hong Kong Information and Communication Technology (ICT) Smart Living 2020
- Merit Award of Hong Kong Jockey Club Age Friendly Innovation 2020
- AI & Digital Health Project Pitch Winner in Asia Summit on Global Health (ASGH) InnoHealth Showcase 2023
- Second Prize at the 'Maker in China' Shenzhen SME Innovation and Entrepreneurship Competition 2024

Climind Limited

"An AI-driven platform focused on delivering actionable climate and sustainability intelligence to industries worldwide"

Founder

Miss WANG Hanyuan

Dr LI Liangzhi

Dr QIAN Yiming

Website

https://www.climind.co/home

More Information

Business

Climind is an AI platform focused on sustainability, providing comprehensive sustainable solutions through natural language interaction. It offers enterprise-level professional search, ESG and climate disclosure report analysis, content generation, carbon trading information, and more. The platform integrates corporate climate data with measures to improve data processing efficiency and decision-making capabilities. Product features include precisely indexed search, automated report generation, and AI-driven analysis of regulatory documents. Climind aims to transform climate science research paradigms, predict complex climate patterns, and promote low-carbon industrial transformation.

Flagship offerings include:

- Climind Ask: A powerful AI assistant, deeply optimised for climate, ESG, and compliance. It delivers fast, rigorous, and traceable expert answers.
- Climind Read: An advanced document analysis tool that transforms static PDFs into dynamic, queryable resources. It enables users to extract precise, relevant information from complex ESG reports, corporate disclosures, and scientific papers for in-depth comprehension.
- Knowledge: An authoritative, structured sustainability intelligence database. It aggregates trusted global data for deep dives into carbon accounting, trade flows, supply chain structures, and risk indicators. The data remains proprietary to your organisation and is fully integrated with the entire Climind suite.
- Data Marketplace: A one-stop marketplace for sustainability and business data, featuring curated, validated, and ready-to-use datasets covering carbon disclosure, policy, accessibility metrics, and more. It supports rapid exploration, purchase, and system integration to power rating models, supply chain assessments, and strategic research.
- Climind Agents: AI agents tailored for specialised, task-specific professional scenarios. They automate functions like report generation, regulatory clause comparison, and policy compliance checks (e.g., battery regulations, carbon pricing, accessibility standards), designed for roles in asset management, ESG analysis, and compliance auditing.

Since its inception, Climind has served a diverse range of clients, including Civic Exchange, illuminem, IRENA, Onehealth Onecare (002044.SZ), CCXGFI, BCG, the World Bank, asset management firms, Botree Recycling, and HKUESGRI. We have developed deep expertise in the banking, asset management, ratings, and listed company sectors, and we are continuously expanding into new domains by leveraging our versatile technology stack. Powered by innovative AI, reliable data, and comprehensive industry solutions, Climind is dedicated to empowering global organizations with precise, actionable sustainability intelligence, driving the global transition to a low-carbon future.

Backed by grants from Technology Start-up Support Scheme for Universities (TSSSU), She Loves Tech, Tsinghua University, and HKSTP, Climind has participated in global convenings like the UN General Assembly, the Oslo Energy Forum, COP, and the World Bank I4C 2024, with features in Bloomberg, CGTN, and FT Chinese.

Technology

Climind helps businesses in addressing climate risk, ESG (Environmental, Social, and Governance), and overall sustainability. The platform features proprietary Retrieval-Augmented Generation (RAG), large language models (LLMs) and advanced data mining techniques, enabling efficient delivery of key climate and sustainability data.

Key Features & Advantages:

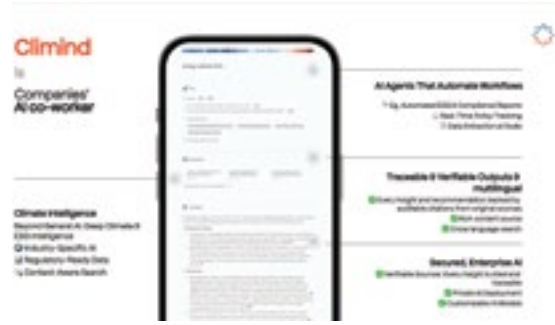
- Retrieval-Augmented Generation (RAG) Systems: Automates extraction and synthesis of climate insights, improving information retrieval efficiency and accuracy for real-time, data-driven decision-making.
- Large Language Models (LLMs): Processes complex sustainability-related text data, generating reports and strategic recommendations that align with global standards, thereby enhancing compliance and transparency.
- Data Mining & Sustainability Databases: Uses AI-powered techniques to extract climate-related data, providing rich decision-making support and in-depth insights.

Key Applications:

- Sustainability Strategy & Decision Support: Provides data-driven insights to support the formulation and execution of sustainability strategies, improving long-term performance.
- Climind's technologies are widely applied across industries, providing significant value in ESG reporting, climate risk assessment, and sustainability strategy formulation.
- Climate Risk Assessment: Offers data service to facilitate climate risk assessments.
- ESG Reporting & Compliance: Automates ESG report generation, aligning with international standards like ISSB, GRI, and Climate Bonds Standard.

Awards

United Nations Young Leaders for the Sustainable Development Goals (SDG) 2023 as 1 of the 17 global young leaders



Support needed

Investment	☑
Business partners or customers	☑
Talent acquisition	☑

14

DOCARE Limited

“AI-driven personalised health assistant for diabetes & obesity”

Founder

Dr WANG Zhichun

Website

http://docarehk.com

Support needed

Investment	☑
Talent acquisition	☑

More Information

Business

DOCARE's platform, AI-Driven Personalised Health Assistant for Diabetes & Obesity, is an innovative digital health solution designed to provide personalised, data-driven, and clinically validated support for managing diabetes and obesity. By combining AI language models, advanced image processing technology, and real-world clinical expertise, we empower individuals to take control of their health while supporting healthcare providers in delivering more effective care.

The platform integrates user data, including medical history, real-time biometric inputs, and dietary patterns, to generate personalised health plans and actionable recommendations. It leverages image processing to analyse meals, track portion sizes, and monitor physical changes, offering users precision and convenience.

Our competitive edge includes clinical collaboration, a database of over 1,500 real patient cases, and a fully developed app framework for diabetes management. These assets ensure our platform is scientifically robust and ready for rapid deployment. With three proprietary patents, we offer unique, innovative features that set us apart in the digital health space.

Strengths and Competitive Edges:

1. Clinically Validated with Real Patient Data: Built on clinical collaborations and a database of over 1,500 patient cases, ensuring evidence-based recommendations.
2. App Framework for Diabetes Management: A fully developed app framework for rapid implementation and scaling.
3. Three Proprietary Patents: Unique technologies and proprietary algorithms ensure a competitive advantage.
4. AI-Powered Personalisation: Advanced language models deliver adaptive recommendations based on user data.
5. Advanced Image Processing: Analyses meals, tracks nutritional content, monitors portion sizes, and measures physical changes.
6. Holistic and Proactive Health Management: Synthesises data to detect risks early and provides strategies to prevent complications.
7. Scalable and Integrative Solution: Offer seamless integration with EHRs, wearables, and telemedicine systems.

By combining clinical expertise, patented innovations, and a user-first design, our platform delivers a transformative solution for diabetes and obesity management, empowering users to achieve better health outcomes with confidence and precision.

Technology

Our platform leverages AI language models and computer vision (CV) to enhance chronic disease management and health monitoring, addressing conditions like diabetes and obesity. We integrate Traditional Chinese Medicine (TCM)-based tongue diagnosis and blood glucose monitoring for precise care.

Special Features & Advantages:

- AI-Powered Knowledge Dissemination: Uses large language models (LLMs) for interactive, personalised health education.
- AI-Powered Computer Vision for Health Diagnostics.
- TCM Tongue Diagnosis: Analyses real-time tongue images for personalised health insights.
- Blood Glucose Monitoring: Provides non-invasive estimation via facial feature analysis.
- Multi-Modal Health Data Integration: Synthesises user inputs and images for holistic care.
- Patented AI Innovations: Features unique algorithms with enhanced accuracy.

Applications:

- Chronic Disease Management: AI conversations provide tailored health recommendations.
- TCM-Based Monitoring: Regular tongue diagnosis for early intervention.
- Non-Invasive Glucose Monitoring: Convenient, non-invasive blood sugar tracking.
- Healthcare Provider Support: Remote patient monitoring and data integration.

Patents:

- Tongue image recognition method and device.
- Tongue image acquisition system.
- Blood glycosylated haemoglobin prediction method.

Our technology merges LLM-powered dialogue with CV applications for comprehensive, personalised chronic disease care.

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EC Bot Limited

"EC Bot is an interactive, evidence-based tele-healthcare platform connecting patients and healthcare practitioners through a marketplace model"

Founder

Prof. ZHANG Shi Ping

Website

https://www.ecbothk.com

More Information

Business

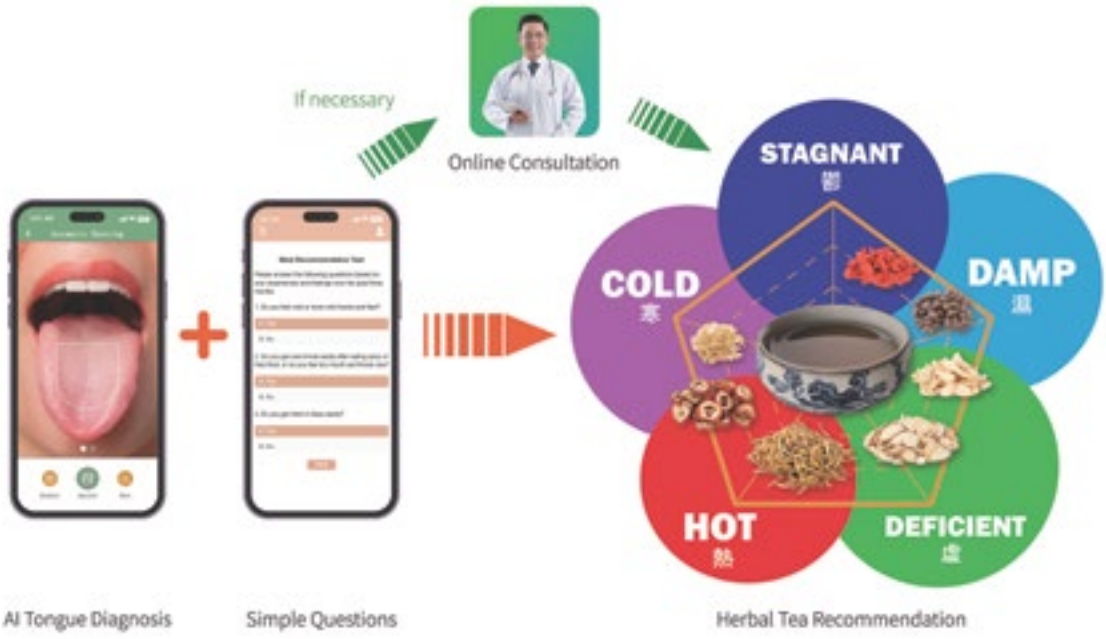
EC Bot is an evidence-based telehealth platform that brings Chinese medicine to users' fingertips. It allows users to seek online guidance and track health changes via patented tongue imaging. Its signature wellness solutions include health-state-specific tea regimens tailored for individuals, helping to prevent the worsening of any potential sub-optimal health states.

Founded by a distinguished research team led by Prof. ZHANG Shi Ping from the School of Chinese Medicine at Hong Kong Baptist University, EC Bot is transforming Traditional Chinese Medicine (TCM) health management by integrating cutting-edge technology and expert knowledge.

What sets EC Bot apart is its unique offering of freeze-dried herbal tea products, meticulously formulated to support natural health enhancement. These products are personally recommended based on each user's health status, which is analysed by our proprietary AI diagnostic algorithms and patented tongue imaging technologies. Users can easily check and record their health status through the platform, and the AI algorithms process this data to recommend the most suitable freeze-dried herbal tea blends tailored to their individual needs—ranging from managing simple sleep problems to supporting recovery after a serious illness.

The platform features a suite of intelligent health assessment tools, enabling users and practitioners to evaluate health needs and monitor changes before and after interventions. These tools can also empower other product suppliers to automate personalised recommendations, ensuring that users receive the most effective, targeted herbal solutions. EC Bot further enhances user experience by providing remote consultation services with Chinese medicine practitioners, allowing users to access expert advice from the comfort of their homes.

Since its launch in 2023, EC Bot has received funding from the Technology Start-up Support Scheme for Universities (TSSSU) and support from the Cyberport Incubation Programme.



Technology

EC Bot Limited specialises in digital TCM health evaluation, innovative products, and telehealthcare services tailored to individual users. Combining advanced technology with traditional health practices, EC Bot offers comprehensive health management solutions.

One standout feature is the Tongue Imaging App, allowing users to capture tongue images with an automatic imaging function. Our user-friendly platform simplifies health assessments, providing instant evaluations—including TCM pattern identification and diabetes risk warnings—along with personalized soup and tea recommendations. This also empowers users to make informed health decisions. The platform also integrates telehealthcare services, enabling remote consultations with healthcare practitioners.

Our technology benefits individual users, community centres, nursing homes, and Chinese medicine clinics by offering convenient, personalised care recommendations. The Tongue Imaging App supports chronic condition monitoring, timely dietary adjustments, and health education initiatives, highlighting the significance of TCM approaches for overall well-being.

Recognised for its innovation, we have received accolades that underscore our commitment to developing user-friendly health assessment tools that bridge technology and traditional medicine.

Additionally, we hold patents for our proprietary algorithms and technologies used in the Tongue HealthChecker App, protecting its methods of analysing tongue images and generating personalised health assessments, such as diabetes screening and TCM pattern autodiagnosis.

Awards

- Bronze Medal at the International Exhibition of Inventions in Geneva 2024
- Silver Medal at The 8th China (Shanghai) International Exhibition of Inventions 2025

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Enter-Link Limited

"You Enter, We Link You to a World without Communication Barriers"

Founder

Prof. PAN Jun

Website

https://www.enterlinkhk.com

More Information

Business

Established in 2022, Enter-Link Limited offers a hybrid language solution that combines self-trained large language models (LLMs) with expert human oversight, guided by advisors with medical and legal expertise. Our proprietary medical and legal language databases ensure precision and contextual understanding, delivering tailored, user-friendly language services for community partners and industry clients.

As demand for high-quality language solutions grows, Enter-Link leverages a robust knowledge base, AI-driven technology, and a certified specialist team to provide customised language support for healthcare institutions, legal professionals, research organisations, and NGOs. Our services include terminology management, document translation, multimedia translation (text, images, and video), and real-time interpreting, addressing the full spectrum of communication needs.

Recognising the gap in language solutions that combine technical accuracy with contextual understanding, especially in specialised areas such as legal and medical domains, our in-house R&D integrates the strengths of AI and human expertise. This not only addresses industry pain points, but also optimises workflows, reduces costs, and enhances accessibility and efficiency for demanding environments.

Led by Prof. Janice PAN, Director of the Academy of Language and Culture at Hong Kong Baptist University, Enter-Link unites a multidisciplinary team of students, alumni, and staff from translation, computer science, and business backgrounds. This ensures seamless integration of advanced technology with practical experience, while fostering knowledge transfer and continuing education.

Enter-Link's achievements include winning the HKBU Ideas Galore! ArtTech x Innovation Competition, receiving funding from the Technology Start-up Support Scheme for Universities (TSSSU), recognition by the HKSTP's Ideation and Incubation Programmes, accreditation as a vendor by the Securities and Futures Commission (SFC) of Hong Kong, and selection for the Google for Startups Cloud Programme.

At Enter-Link, You Enter, We Link You to a World without Communication Barriers!

Technology

Enter-Link Limited utilises the latest language technologies, including audio transcription, translation, online meetings, and text extraction, to offer a comprehensive, one-stop service for fast and reliable translation and interpreting. By focusing on the medical and legal industries, we have built domain-specific expertise, accumulating extensive specialised data.

Our services are powered by data-driven innovation, utilising over 10 million tokens of self-developed multilingual training data to support its self-trained large language models (LLMs). These models enhance the accuracy, contextual understanding, and efficiency of translations, supporting a wide range of language-related tasks.

With extensive experience in multilingual services, we have translated over 800,000 words and delivered more than 600 hours of interpreting across healthcare, medical, legal, and arts sectors. This expertise continuously improves the quality and accuracy of its services, ensuring we remain at the forefront of industry-specific language solutions.

Our platform supports web, iOS, and Android, allowing users and translators to access its services anytime, anywhere. By combining cutting-edge technology with deep domain knowledge, we deliver a seamless and efficient experience for users and language professionals. Its focus on professional sectors ensures precise, reliable, and tailored solutions.

Our commitment to innovation and quality positions it as a trusted partner for organisations seeking advanced language services, bridging communication gaps and enabling meaningful connections across cultural and linguistic boundaries.

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Gestura Limited

“Gestura specialises in advanced AI-driven software for string musicians, supporting personalised training and performance analytics”

Founder

Prof. Peter A C NELSON

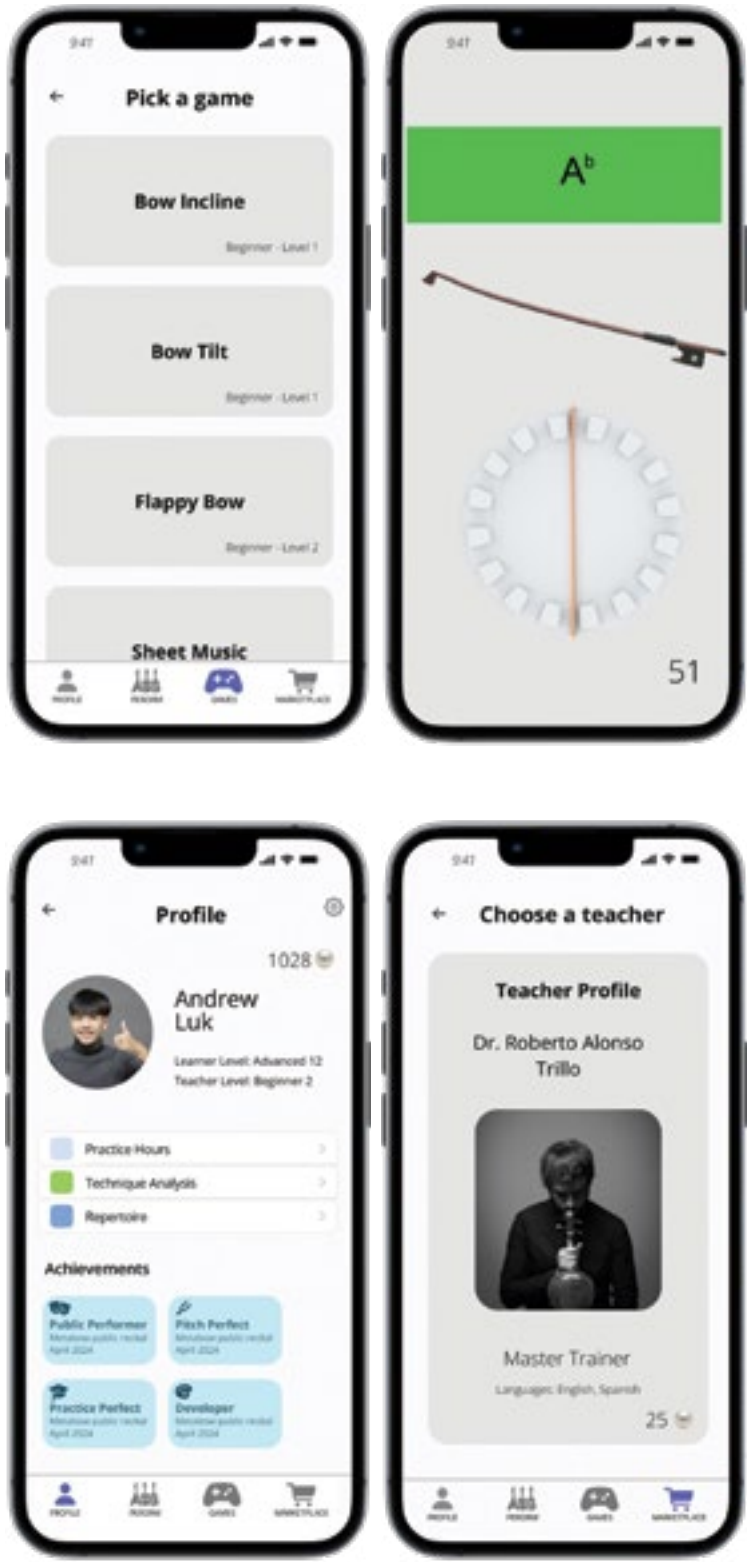
Prof. Roberto ALONSO TRILLO

Business

Gestura Ltd., founded by Prof. Roberto ALONSO TRILLO and Prof. Peter A C NELSON from Hong Kong Baptist University in 2024, offers a next-generation software analytics service for classical string musicians. We capture subtle details of virtuosic technique as digital datasets to train personalised AI agents, improving technique and live performance augmentation. This AI agent can act as a digital twin for monetisation and sharing at scale.

Utilising machine learning and proprietary gesture-tracking hardware, we revolutionise musical performance and training. Musicians can expand their influence beyond one-on-one instruction by producing and sharing their AI agents. We support interactive multimedia functions in education, performance, and data analysis, creating a new creative product and marketplace for musicians.

We lead innovations in EdTech and ArtTech by offering real-time, AI-driven insights and multimedia capabilities. With unparalleled user-created data streams, we transform music tech by creating a marketplace for artistically trained AI agents. The digital music instrument (DMI) industry lacks sophisticated AI analytics for string musicians, and no current product offers bespoke AI agents trained by virtuosos. We fill this gap by providing individualised, AI-based feedback, enhancing traditional string practice with data-informed, real-time insights and customisable interactive features.



Technology

Gestura combines traditional data analytics with generative AI to record and analyse sound and motion information from musicians. We leverage the power of the AI vertical model, allowing users to record their playing, train AI agents for feedback, create new music, and drive multimedia outputs. It will also create a marketplace for musicians to share and monetise their AI agents via subscription.

Support needed	
Investment	☑
Business partners or customers	☑

18

HK Smart Mouse Lab Manager Limited

AI MOUSE

"Accelerating research, empowering life"

Founder

Prof. LIU Jin

Website

https://www.ai-mouse.com

Support needed

Investment	☑
Business partners or customers	☑

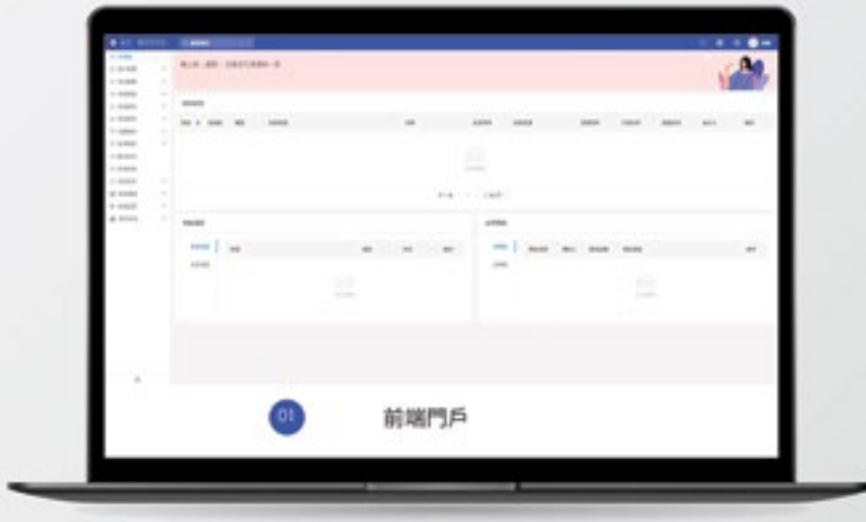
More Information

Business

HKSM is committed to providing one-stop and efficient solutions for laboratory animal management at experimental animal centres. Our core product, AI-Mouse, is an Internet of Things (IoT)-based intelligent and integrated service management system for animal lifecycle monitoring, digital dynamic tracking, data statistics and analysis, molecular testing, resource sharing, etc.

Technology

AI-Mouse, is an Internet of Things (IoT)-based intelligent and integrated service management system for animal lifecycle monitoring, digital dynamic tracking, data statistics and analysis, molecular testing, resource sharing, etc. It possesses the advantages of being interdisciplinary and having a platform with upstream and downstream integration, which meets the needs of our customers in the fields of basic research and pharmaceutical R&D. The AI-mouse applet has been registered by the Ministry of Industry and Information Technology. We have obtained the software copyright.


01
前端門戶


06
實驗動物即時監測及預警

19

IntelligenceX Limited

iNTELLIGENCEX

“Innovative, changeable, biometric-based, lip-password speaker identity verification technology”

Founder

Prof. CHEUNG Yiu Ming

Website

https://intelligencex.com.hk

More Information

Business

IntelligenceX Limited was founded by a research team led by Prof. CHEUNG Yiu Ming from the Department of Computer Science at Hong Kong Baptist University. Since 2022, we have received funding from the Technology Start-up Support Scheme for Universities (TSSSU) under the Hong Kong Innovation and Technology Commission for three years. The company has researched and developed a patented technology based on lip-password that addresses the escalating demand for advanced technology in a field of identity verification. This solution provides a secure and flexible lip-password-based identity verification method to customers from diverse industries, including financial institutions and smart door lock manufacturers.

Currently, there is a lack of a secure and flexible identity verification solution in industries that prioritise security and privacy, such as finance, healthcare, and manufacturing. The advantages of lip-password-based technology are underpinned by its focus on developing a flexible and secure identity verification system to tackle privacy protection and other unresolved challenges, such as the challenge of identifying identical twins. The lip-password-based door access control system and online financial transaction identity verification method present an intelligent solution that demonstrates superior flexibility, security, and adaptability compared to solutions based on conventional identity verification technology. Furthermore, the ability of Lip-password to synchronise and complement other identity verification technologies, particularly in conjunction with facial recognition, is of paramount importance. This integration, combined with the convenience offered by our innovative technology, serves to deliver substantial value and sets our technology apart in the market.

Technology

IntelligenceX Limited specialises in flexible and accurate lip-password-based technology in the area of identity verification for online financial transaction and smart door locks.

The merits of this new technique are at least six-fold:

- The dynamic characteristics of lip motions are resistant to mimicry;
- The acquisition of lip motions is relatively insusceptible to the background noise and distance;
- The lip-password is applicable to speech-impaired individuals;
- The lip-password has no language restrictions. Users can change the lip password at any time.
- The lip-password is robust against different malicious attacks, such as photo attacks and mask attacks;
- The lip-password provides a perfect solution for the challenge of identifying identical twins.

The Lip-password-based Speaker Identity Verification System verifies a person's identity by simultaneously matching the password content with the underlying behavioural characteristics of lip movement. This innovative technology has been protected by a United States utility patent.

Awards

- Gold Medal with the Congratulations of the Jury at the International Exhibition of Inventions Geneva 2018
- Gold Medal at the International Invention Fair in the Middle East (IIFME) 2025

Support needed

Investment	☑
Business partners or customers	☑

20

TadReamk Limited

TadReamk

“Protect your intellectual property”

Founder

Prof. XU Yida

Website

https://www.tadreamk.com

Business

There are approximately 88.2 million active trademark registrations worldwide. The processes of searching, matching, and creating trademarks are labour-intensive and can potentially expose one to the risk of infringement. TadReamk is an AI-driven company committed to providing a complete range of products centered on trademark AI technology. Our offerings feature trademark infringement searches and interactive trademark creation tools. We are a team of scientists, AI experts, professors, PhD students, research engineers, full stack developers, and marketing professionals. We are all united by a shared passion for AI and entrepreneurship.

Technology

TadReamk has developed a range of AI-driven solutions focused on trademark technology, with our flagship products being:

- TadReamk Eye (TE): An advanced tool that delivers efficiency by comparing a client’s trademark against billions of others within seconds, while also being fully explainable by providing clear and accessible insights into how our similarity search works, making the process easy for everyone to understand.
- TadReamk Create (TC): A creative platform that empowers individuals with original and innovative logo ideas, ensuring each client’s logo stands out, captures attention, and carries strong aesthetic value.

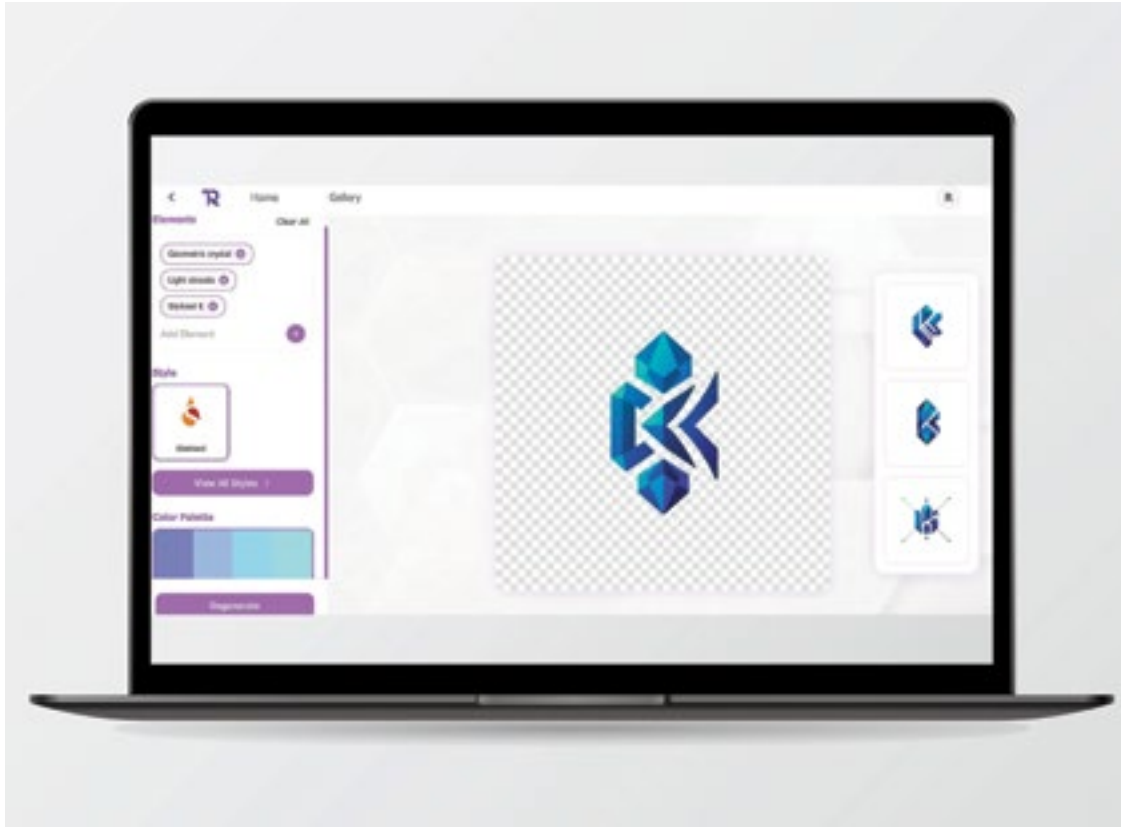
Awards

Certificate of Excellence at the 'Maker in China' SME Innovation and Entrepreneurship Global Contest – Hong Kong Chapter (MiCHK) 2024'

Support needed

Investment	☑
Business partners or customers	☑

More Information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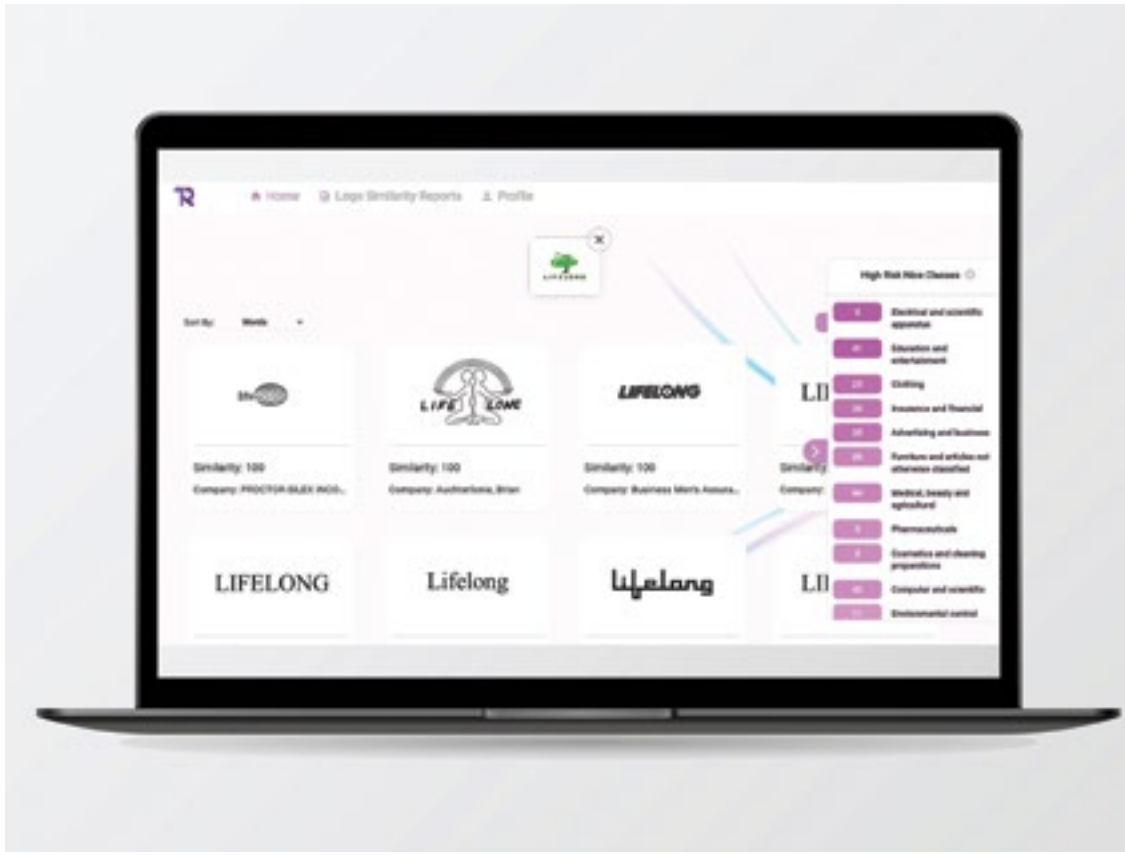
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Art Tech

21

Autonom. Limited

Autonom.

"Gain your knowledge through creativity"

Founder

Mr Philip Wing-yeung MAK

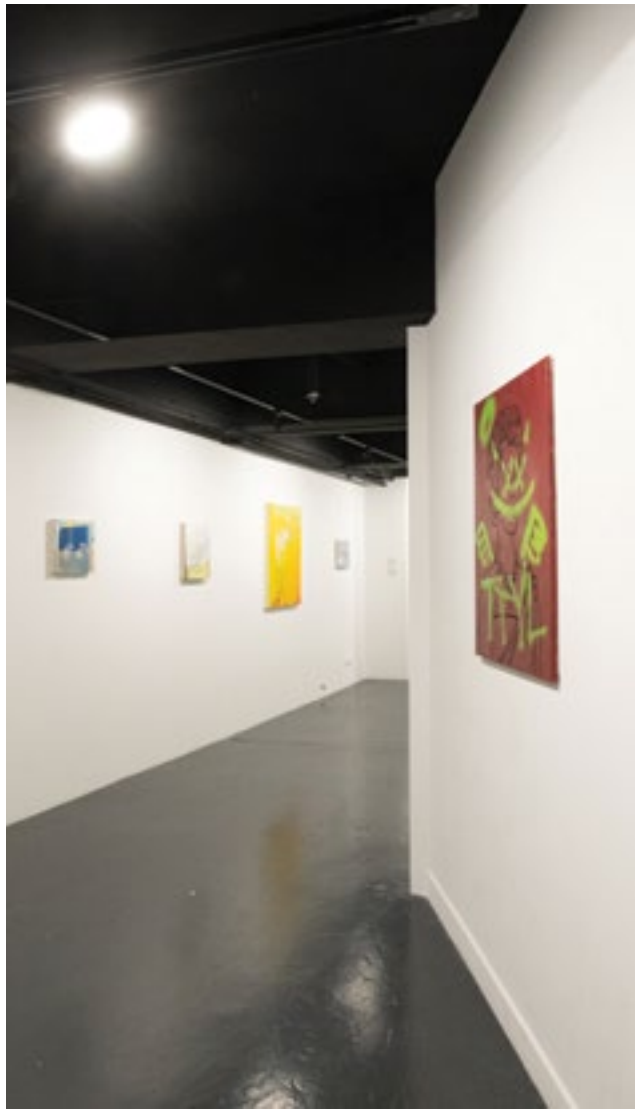
Ms Inge Ka-sin CHEUNG

Support needed

Investment	☑
Patent and IP licensing services	☑
Business partners or customers	☑

Business

Autonom. Limited is dedicated to bridging the gap between rapidly evolving technological advancements and the education sector. We empower secondary schools and institutions by providing innovative and customisable workshops and training sessions designed to keep students and educators up-to-date with new knowledge and skills. Our student-focused workshops combine art appreciation with the development of critical skills such as analytical and logical thinking, fostering a deeper understanding of the world and enhancing effective learning. We offer specialised training sessions on emerging tech-related topics, including cryptocurrency, blockchain, and artificial intelligence for schools and institutions, ensuring they are equipped to guide students in navigating the complexities of the modern era.



Technology

Collaborating with a team of data scientists in analysing learning pattern and methods for optimising learning models with current partnering schools and institutions. Throughout the year of studies and trials, we discovered it was not the only learning content that helps students improve their academic results, but the more subtle elements that revolve around the relationship between the educators and the students. Currently, we are developing an AI-driven platform using the data we provide to empower students and educators in the modern learning environment. We are looking forward to helping create a friendly and empowering learning environment for learners of all ages.

22

BAM Limited

BAM

“Empowering music creation: AI-driven vocal cloning and global collaboration for producers and students”

Founder

Prof. Johnny Ming-lun POON

Dr Edmond Yik-man TSANG

Website

https://www.bamusic.com.hk

Support needed

Investment ☑

More Information

Business

BAM Limited aspires to establish an innovative music production marketplace centred on AI services, focusing on Cantonese vocal cloning through the 'SoftVC VITS Singing Voice Conversion model.' We also plan to offer cutting-edge, high-quality AI demo services designed to elevate music production by automating repetitive tasks like editing and mixing. This will enable producers to focus more on the creative aspects of their work. Additionally, our service will facilitate remote collaboration, making it easier for producers and artists to work together from different locations around the world. We are pleased to announce that we have signed an agreement with Warner Chappell Music Hong Kong Limited to manage all our music publishing affairs. We have already sold three songs to two renowned artists in Hong Kong, China, which have been published across various platforms. In addition, we have entered into exclusive publishing contracts with several talented students from Hong Kong Baptist University, facilitating the sale of their compositions to prominent local pop artists.

Technology

BAM is a pioneering start-up transforming the music industry with its AI algorithm based on the Language Learning Model (LLM), focusing on Cantonese singing. This model captures emotions and key musical elements. Our B2B services feature AI-generated vocals for music demos and licensing, reducing costs and enhancing the musical experience. We plan to expand to artist management, using AI to amplify each artist's unique qualities. On the B2C front, we offer personalised music solutions and plan to introduce customised music services for events.

We have developed a working prototype with a user-friendly interface for music producers, graduates, and students. This prototype offers Cantonese vocal cloning through the 'SoftVC VITS Singing Voice Conversion model.' We aim to provide high-quality AI demo services, enhancing music production by automating tasks like editing and mixing, and facilitating remote collaboration. Future plans include integrating services from real music producers and students, such as wedding song production, music arrangement, session recording, and vocal training, and establishing a centralised marketplace for diverse music production needs. Customers will have the opportunity to commission customised or blended music according to their preferences.

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Constellarts Co-creation (Hong Kong) Culture Technology Limited

"Revolutionising digital cultural experiences, creating new discoveries with every visit"

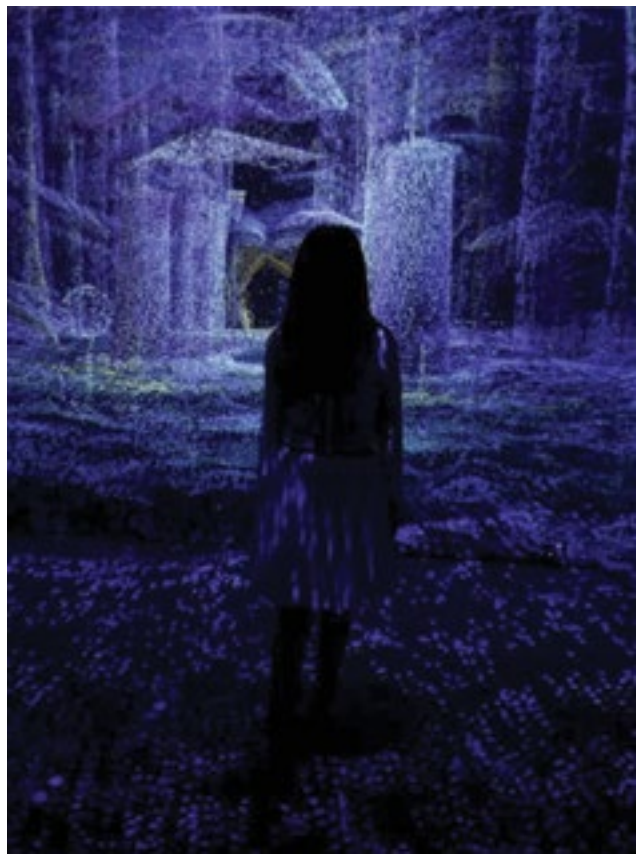
Founder

Ms GAO Yuan

Mr YUAN Chen

Business

Constellarts Co-creation is a Hong Kong-based technology company founded by research staff from the HKBU Visualization Research Center. We specialise in AI-driven solutions for cultural and educational venues. Our flagship product, the Active Digital Experience Generator (ADEG), transforms traditional static exhibitions into dynamic, evolving experiences by integrating cutting-edge AI technologies, including facial recognition, behavior analysis, and content generation. Our solution addresses a critical pain point for venues—the high cost and inefficiency of frequently updating digital content. ADEG enables exhibitions to evolve over time, offering unique, personalized experiences to repeat visitors while reducing operational costs. We target mid-sized cultural and educational venues, such as local museums, digital art spaces, and science centres, helping them create high-quality, interactive exhibitions once reserved for major attractions. Our current partnerships include pilot projects with local institutions and new venues under construction Looking ahead, we plan to scale our technology into a platform service for content developers and operators, fostering a collaborative ecosystem for sustainable digital cultural experiences.



Technology

Constellarts Co-creation specialises in leveraging AI technologies to create personalized, evolving digital experiences for cultural and educational venues. Our Active Digital Experience Generator (ADEG) combines facial recognition, behavior analysis, and AI-generated content to deliver dynamic, interactive exhibitions.

Special Features & Advantages:

- Dynamic Content Evolution: ADEG evolves over time based on visitor interactions, ensuring repeat visits remain engaging.
- Scalable Solutions: Our technology offers high-quality interactive experiences at a fraction of the cost traditionally required for content updates.
- Visitor Engagement: Combines AI-generated content with predefined interactions to provide unique and meaningful experiences.

Applications:

- Mid-sized cultural and educational venues: Museums, science centres, and digital art spaces. Local attractions aiming to attract repeat visitors through innovative digital exhibitions.
- Future expansion into educational tools and collaborative content platforms.

Support needed

Investment	☑
Business partners or customers	☑

24

Dinno Soundwave Technology Limited

SOUNDWAVE

“Provide transparency, efficiency, and fair compensation for all stakeholders in music distribution”

Founder

Dr CHEN Qian

Prof. XU Jianliang

Website

https://dinno-soundwave.vercel.app

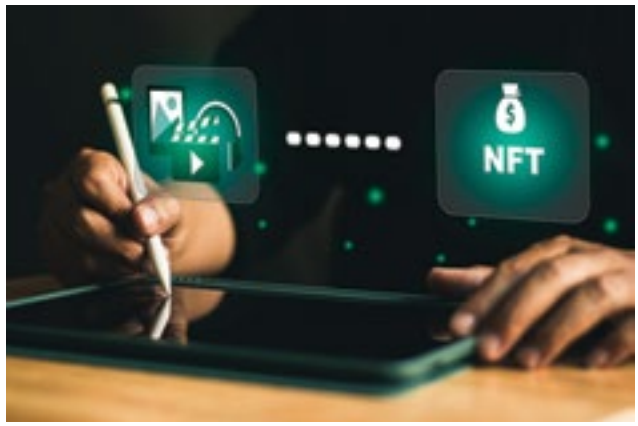
More Information

Business

Dinno Soundwave Technology Limited, founded by Prof. XU Jianliang ’s Blockchain and FinTech Lab at Hong Kong Baptist University, aims to revolutionise the music distribution industry. Since 2024, we have been supported by the HKBU Inno Realisation Fund and have developed the world’s first verifiable blockchain with query integrity assurance, resulting in one United States patent filing.

Currently, music distribution presents challenges for all stakeholders. Artists grapple with low payouts, opaque royalty systems, and limited control over their work. Traditional platforms struggle with accurate usage tracking and efficient royalty payments, while NFT platforms lack tools for music NFT promotion and cross-platform tracking. Soundwave provides a decentralised, transparent, and efficient ecosystem that benefits everyone. Artists gain a direct-to-fan distribution channel with fair compensation through real-time usage tracking. Traditional platforms benefit from seamless integration, leveraging blockchain for streamlined royalty payments and reduced administrative overhead. NFT platforms gain robust tools to promote music NFTs and track usage, fostering a new market for digital music assets.

By prioritising secure tracking and streamlined payments, Soundwave fosters a more equitable music ecosystem. We unlock blockchain’s potential to empower creators, enhance platforms, and drive the future of music distribution.



Technology

Dinno Soundwave Technology Limited specialises in patented, secure and transparent blockchain-based technology for the music industry, serving artists, music platforms, and promoters. Our technology is ideal for decentralised music distribution, rights management, and piracy prevention, leveraging a robust blockchain infrastructure, smart contracts, and secure audio encoding. This ensures fair compensation for artists, efficient royalty payments for platforms, and increased revenue generation for all stakeholders. Our technology has been awarded a United States non-provisional patent.

Awards

Silver Medal at the International Exhibition of Inventions Geneva 2024

Support needed

Business partners or customers	☑

25

Domain Technology Limited

“Everything in a lifetime that makes you want just a touch”

Founder

Prof. WAN Renjie

Awards

Silver Medal at the International Exhibition of Inventions Geneva 2025

Business

Domain Technology Limited, a start-up established in 2024 from Hong Kong Baptist University, is spearheaded by Prof. WAN Renjie, Assistant Professor from the Department of Computer Science. Our mission is to safeguard digital intellectual property throughout the design-to-production process. By embedding IP protection into every phase of our platform—from 2D-to-3D modeling to AI-enhanced design and smart manufacturing—we empower creators to maintain ownership, traceability, and control over their digital assets. A key innovation in this effort is Guardian3D, a cutting-edge solution that enhances our capabilities.

The creative and manufacturing sectors face increasing challenges, including design leaks, unauthorised replication, and inadequate traceability in digital workflows. Many organisations rely on disjointed tools lacking integrated IP protection, exposing assets to risks during collaboration and production. These vulnerabilities stifle innovation, heighten legal risks, and undermine trust, particularly in industries requiring high customisation, such as fashion, product design, and industrial manufacturing.

Technology

Our AI-driven platform integrates a cohesive, end-to-end system that ensures robust IP protection at every stage, supported by components that include the transformation of 2D inputs into 3D models with digital watermarking and access controls for secure and traceable design origins, the utilisation of generative AI to refine designs with secure licensing and comprehensive usage tracking to enforce IP ownership, and the bridging of digital designs to manufacturing systems through encrypted data transfers and production authorisation protocols to prevent unauthorized replication, further enhanced by Guardian3D, which introduces the SecureMark Suite to incorporate invisible, unerased marks into 3D designs and the Verify Suite for rapid ownership verification, collectively enabling a seamless, automated, and secure journey from concept to product with an additional layer of protection that works across dimensions.

Our Invention: Guardian3D

- **SecureMark Suite:** Hides invisible marks in your 3D designs that no one can erase.
- **Verify Suite:** Checks if a 3D creation is yours in a snap.

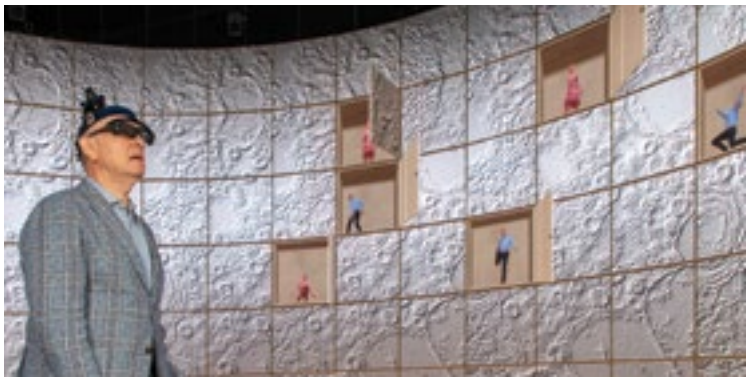
Protection That Works Across Dimension

Who needs our Invention?

- **Governments:** Spots fake 3D designs online or in the real world.
- **Famous People:** Keeps their 3D images safe from copycats.
- **Big Brands:** Locks up 3D designs so no one can rip them off.
- **Artists:** Makes sure their 3D art stays real and theirs.



26 Immersive Unlimited Limited



“Bespoke, cutting-edge immersive technology enabling intelligent, interactive and co-creative experiences that engage, educate, and inspire global communities”

Founder

Prof. Jeffrey SHAW

Support needed

Investment ☑

Business

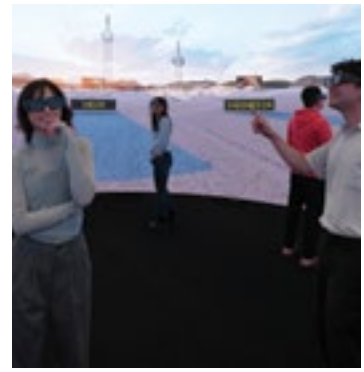
Immersive Unlimited Limited (IU) leverages new media technology to create intelligent and interactive social experiences in cultural heritage, archives, and performance. By delivering immersive media that entertains, educates, and fosters social engagement, we aim to inspire a global audience and redefine how storytelling, experience, and education converge. Our vision is to lead in pioneering immersive experiences that captivate cultural enthusiasts.

Industries such as museums, heritage sites, airports, malls, resorts, and performance venues are incorporating immersive technologies to enhance visitor experiences, brand loyalty, and sales. As digital transformation accelerates, organisations are increasingly investing in AI-driven, immersive solutions. Consumers, too, are showing growing expectations that their cultural, retail, and leisure engagements will feature cutting-edge interactivity. According to market.us, the global immersive market is set to approach US$100 billion within five years.

We are finalising agreements totalling over HK$38 million for projects in 2025-2026, involving a department of the Government of HKSAR, a globally touring digital dance production, a Hong Kong, China tourism initiative, a cultural heritage project in Macao, and a museum and tourism development in India. Unlike competitors, we use mobile LED technology and high-fidelity content for social co-creative interaction, offering unparalleled flexibility and quality.

Our clients include resorts, government entities, heritage sites, and performance venues, all of which benefit from our ability to produce immersive, emotionally resonant experiences. Led by Prof. Jeffrey SHAW who is a pioneer in interactive media and digital heritage, we are poised to become a global leader in shaping transformative cultural experiences. Prof. SHAW's expertise ensures the company's capacity to inspire and connect global communities through immersive technologies.

Technology



Immersive Unlimited Limited (IU) is built on decades of research at Hong Kong Baptist University and holds an exclusive technology license from HKBU's Visualisation Research Centre (VRC), funded HK$35.4 million from the Innovation and Technology Support Programme (ITSP) under the Innovation and Technology Commission (ITC). We have also received multiple rounds of the Technology Start-up Support Scheme for Universities (TSSSU) funding.

The VRC is a pioneering hub connecting visualisation, aesthetics, culture, and computer science. Its installations use next-generation hardware and software for interactive, multisensory experiences, integrating spatialised sound, multimodal sensing, and AI-driven human-computer interaction (HCI). These frameworks allow audiences to co-create and evolve narratives in real time and enable intercontinental content sharing.

Our systems record participant behaviours, informing AI-driven narrative engines to adapt storylines dynamically for personalised experiences. Featuring state-of-the-art LED displays and visualisation systems, our technology outperforms conventional VR, AR, and MR setups in quality, flexibility, and scalability.

Applications include transforming museums into interactive cultural laboratories, theatres into evolving performative landscapes, and sports events into immersive spectacles. Historical archives can become explorable, cinematic worlds, engaging audiences with cultural heritage on unprecedented levels.

Our foundation from HKBU's VRC and ITF-funded research signals its technological importance. Our exclusive licence ensures continued refinement and commercialisation of advanced immersive systems, pushing the boundaries of cultural engagement worldwide.

27

Lumos Arts and Technology Limited

Lumos Arts and Technology Limited
影羅藝術科技有限公司

"Create, own, and transform: AI-powered digital humans and motion solutions"

Founder

Prof. CHEN Jie

Website

https://lumosarttech.github.io

Support needed

Investment	☑
Business partners or customers	☑

More Information

Business

Lumos Arts and Technology Limited pioneers AI-powered solutions for digital avatar creation and animation. Our advanced generative AI delivers both realistic and stylized avatars with natural, expressive animation. Our solution combines an intuitive creation interface with powerful simulation tools, enabling seamless design, editing, and customization. Built with IP protection at its core, our technology ensures complete asset ownership while offering granular creative control. From concept to production, we empower creators to transform their vision into digital assets with confidence and ease.

Technology

Lumos Arts and Technology Limited delivers unique AI-powered solutions for avatar creation and animation. Our Dynarect animation platform features an intuitive posing and editing interface, along with an IP-secured motion stylization module, blending creative freedom with asset protection. The Buvatar character generation platform simplifies avatar design through modular customization and built-in animation (powered by Dynarect), ensuring visual and physics consistency while eliminating the need for costly, time-consuming 3D modeling workflows. Together, these tools empower digital avatar production by merging artistic flexibility with technical efficiency through AI.

We deliver generative AI solutions for content creation across entertainment, film, performing arts, and education sectors. Our technology has been showcased at prestigious events including FILMART 2024/25, HKBU Symphony Orchestra Annual Gala Concert 2022-2024, HKGNA Music Festival 2023, and the Hong Kong Ballet's 'Wizard of Oz'. We have received support from Technology Start-up Support Scheme for Universities (TSSSU) and the HKSTP Incubation Programme.

28

Minotaur Pictures Limited

“Minotaur Pictures Limited creates stunning art tech experiences in the field of expanded cinema and interactive video”

Founder

Prof. Eugene Alexander BIRMAN

Mr Roger GARCIA

Mr Topi LEHTIPUU

Website

http://theonceandfuture.hk

More Information

Business

Minotaur Pictures Limited (MPL) is established to serve as the promotional and further R&D vehicle for 'The Once and Future' project, a groundbreaking, 'stunning' (Business Times, 9 Jun 2022), art tech project created through a partnership between HKBU (TSSSU), the Government of the HKSAR, Arts House Limited Singapore, and the Singapore National Arts Council. The work integrates cinema, music, machine learning, and laser design through a groundbreaking production that also recouped its initial investment cost by its first performance, proving that cultural projects with blue-chip international partners can be not only ambitious, but also profitable. We will re-market the performance in mainland China, Western Europe, and Australia, utilising the experience of its three founders who possess extensive knowledge of the arts and film industry, and as part of marketing and creating new partnerships, we will further develop and refine the technology, creating digital spin-offs and new extensions of the technology into video games and interactive media.

Technology

MPL integrates research originally conducted by a cross-departmental team at HKBU (2018-2021) with input from Sony CSL Paris and a slew of professional arts-tech practitioners from Singapore and Hong Kong, China. The project's first release phase consisted of a digital online release for the New Vision Arts Festival in the form of an interactive movie which used custom-written software giving users the ability to choose the narrative course of a film, in collaboration with legendary art director Xavier REYÉ, whose previous projects for Nike and the Belgian popstar Stromae have reached hundreds of millions of online views. The code and format are proprietary to us. The live project adapted alt-text scanning techniques from Microsoft Azure Vision and Google Cloud API, along with an innovative laser system that interacted in live time with the projected film. We will build on these technologies to release more ambitious interactive videos and promote this unique integration of machine learning text scanning from video with cultural production in venues around the world.

Support needed

Investment	☑

29

Motion Expert Hong Kong Limited

"Tell creative stories"

Founder

Mr Norman CHAN

Website

https://www.motionexp.com

Support needed

Investment	☑

Business

Motion Expert Hong Kong Limited was founded by a research team from the Academy of Film, Hong Kong Baptist University. Since 2024, it has received funding from the HKBU Inno Realisation Fund and the HKSTP Co-Ideation Programme for one year, as well as the Cyberport Incubation Programme for two years. We have developed a technology that can generate ready-to-shoot screenplays. This solution provides fast, efficient, and creative brainstorming services to the storytelling industry, including film and advertising. Currently, there is a lack of creative stories and well-structured screenplays in the film and media production industries. With our AI story writer and online story marketplace, we aim to help filmmakers in building and consolidating screenplays from the very beginning stage, as well as place their creative works in the global merchandising market.

More Information

Technology

Motion Expert Hong Kong Limited specialises in movie-centred large language models (LLMs) for the film and media industry, catering to film directors and content creators. Our technology is ideal for generating human-like stories and screenplays, primarily based on comprehensive analysis of thousands of movies from Hong Kong, China, Hollywood, and around the world.

Sustainability

30

BeastiBite Limited

“Nature-driven innovation for a plastic-free future”

Founder

Prof. Matthew LUI

Dr Danny LEONG

Business

BeastiBite Limited was founded by a transdisciplinary team from Hong Kong Baptist University (HKBU) and Beijing Normal-Hong Kong Baptist University (BNBU). We received funding from the HKBU Inno Realisation Fund in 2024. Our technology enhances the bio-decomposition of plastic waste using insects. This solution provides an efficient bio-based method to eliminate plastic waste. We have already partnered with Alibaba Entrepreneurs Fund (AEF).

Technology

Our technology provides rapid bio-decomposition of plastic waste under ambient conditions, facilitating a viable and sustainable alternative to landfills and incineration.

Support needed

Investment	☑
Business partners or customers	☑
Talent acquisition	☑

31

BioH2 Tech Limited

BIOH2 TECH LTD.

"Affordable green hydrogen from biowaste for a sustainable future"

Founder

Prof. ZHAO Jun

Awards

- Gold Medal at the International Exhibition of Inventions Geneva 2025
- Gold Medal at the International Invention Fair in the Middle East (IIFME) 2025

Support needed

Investment	☑
Business partners or customers	☑

Business

BioH2 Tech Limited is a green biotechnology company founded by Prof. ZHAO Jun, Associate Professor from the Department of Biology at Hong Kong Baptist University. The company is dedicated to revolutionising the energy sector by converting biomass waste into affordable green hydrogen. Our mission is to address two critical global challenges: waste management and clean energy production. By leveraging advanced technology and sustainable practices, we provide an innovative solution that not only reduces environmental impact but also offers a viable alternative to fossil fuels. Our flagship product is a state-of-the-art green hydrogen production system that utilises biomass waste as a feedstock. The process involves converting organic waste materials into hydrogen through a series of chemical reactions with the catalysts developed by our company. This method is not only environmentally friendly but also cost-effective, making green hydrogen accessible to a broader market.

Technology

BioH2 Tech Ltd has developed pioneering technology that transforms biomass waste into green hydrogen, utilising a novel catalytic system. This approach addresses waste management and clean energy production, offering a cost-effective and environmentally friendly solution. By leveraging low-cost feedstocks such as food waste, yard waste, and agricultural residues, our technology reduces costs while ensuring a high hydrogen yield. The process is carbon-neutral, mitigating environmental impact compared to traditional methods. Our catalysts enhance efficiency, maximising hydrogen production and minimising energy consumption. The modular, scalable design allows for easy adaptation to different capacities, making it versatile for various applications.

Our green hydrogen technology is applicable across multiple sectors: energy (power generation, hydrogen vehicles), industry (chemical manufacturing, steel production), and heating systems. Our advanced, patented technology positions us as a leader in transitioning to a cleaner, more sustainable energy future, addressing global challenges with impactful solutions.

32

Bright Hub Technology Company Limited

"We are committed to developing and implementing next-generation nanofibre technologies that revolutionise the industry"

Founder

Prof. Ken Cham-fai LEUNG

Website

https://www.brighthubtech.com

More Information

Business

Bright Hub Technology Company Limited, founded in early 2024 with technology from Hong Kong Baptist University (HKBU), has received funding from the Technology Start-up Support Scheme for Universities (TSSSU) and the HKSTP Incubation Programme. These resources position us as a leader in advanced material technologies. Central to our innovation is a patented nanofibre coating technology offering exceptional thermal stability, UV-blocking, anti-corrosion, and anti-scratch properties. This versatile platform develops intermediate materials and final products with superior durability, meeting the demand for sustainable, high-performance solutions across industries.

The nanofibre coating technology has applications in road paints, roof coatings, pigments, reinforced concrete, electronic components, crude oil absorbers, and solar panels. These products minimise waste, improve energy efficiency, and extend material lifespan, aligning with global sustainability goals.

Bright Hub focuses on three flagship products:

- High-Grade Iron Oxide Pigment Powders: Offers superior thermal insulation, energy-efficient manufacturing, and vibrant, long-lasting colour applications.
- Protective Nano Coatings: Provides advanced protection against corrosion, scratches, and environmental degradation with transparent colors.
- Aramid Thermal Insulation Materials: Delivers excellent thermal insulation and anti-impact properties, reducing energy consumption and improving efficiency.

The global market for thermal insulation products is projected to grow from US$ 32.71 billion in 2024 to US$ 53.79 billion by 2034, with a compound annual growth rate (CAGR) of 5.1%. We are strategically positioned to capitalise on this growth with our innovative product line, addressing the rising demand for energy-efficient, sustainable solutions. By combining cutting-edge technology with a commitment to sustainability, we aim to revolutionise industries and contribute to a greener, more energy-efficient future.

Technology

Bright Hub Technology revolutionises the coatings industry with pioneering nanotechnology innovations. Our patented Ultrasound-resonated Nanofibre Coating technology emphasises sustainability and performance. We focus on three key projects: nanofibre-coated iron oxide pigment powder, protective coatings, and aramid aerogel, each addressing modern industrial challenges.

Our flagship product, the nanofibre-coated Yellow Iron Oxide Pigment, is environmentally friendly and non-toxic. Unlike traditional pigments that degrade under high temperatures, our innovative coating maintains its vibrant colour, making it a sustainable alternative to hazardous materials like Azo and Cadmium Yellow.

Our protective coatings, developed using our ultrasound-resonated technology, offer exceptional thermal stability, UV-blocking, self-cleaning properties, and durability. These coatings benefit solar panels by enhancing efficiency and reducing cleaning needs. They also improve the longevity of automotive surfaces.

Our third project, the aramid aerogel, is a lightweight, high-performance insulation material offering exceptional thermal resistance and impact protection. It can be used in automotive and construction applications where thermal insulation and flame retardancy are crucial. We are refining its manufacturing process to incorporate recycled aramid fibres, promoting sustainability.

Our technology holds full patents for our Ultrasound-resonated Nanofibre Coating technology in the United States and Hong Kong, China. We are committed to sustainability, pursuing Sustainable Development Goal (SDG) certification via the iGreeBuy Platform. With our innovative products, we are poised to lead towards a more sustainable future, offering greener solutions across industries.

Awards

- Bronze Medal at the International Exhibition of Inventions Geneva 2024
- Gold Medal at the International Invention Fair in the Middle East (IIFME) 2025

Support needed

Investment	☑
Business partners or customers	☑

Knowledge Transfer Office

General Enquiries:
+852 3411 8098 kto@hkbu.edu.hk

Intellectual Property Commercialisation
+852 3411 2819 licensing-kto@hkbu.edu.hk

DLB 825, David C. Lam Building, 34 Renfrew Road, Shaw Campus,
Hong Kong Baptist University, Kowloon Tong, Hong Kong

https://kto.hkbu.edu.hk
HKBU Knowledge Transfer Office
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