

2025



Advanced Biomedical
Instrumentation Centre

先進生物醫學儀器中心

NEWSLETTER

ISSUE 05

Fostering Future Innovators:

ABIC Pitching Corner 2024



X



THE HARVARD CLUB
OF HONG KONG
哈佛大學香港校友會

On December 3, 2024,
the ABIC Pitching Corner,
supported by the **Harvard
Club of Hong Kong**, achieved
exceptional success with over a
hundred participants!

The Pitching Corner serves as a vital platform for ABIC young researchers to present their innovative ideas and achievements to potential partners. Based on feedback received, we will refine our development for optimal product-market fit.

We extend our heartfelt gratitude to our guests, including investors, industrial experts, medical professions, and our faculty investigators, *Prof. David Weitz* from Harvard University and *Prof. Andreas Bausch* from Technical University of Munich. Their invaluable insights and constructive feedback enriched the event, demonstrating a commitment to fostering innovation and supporting emerging talent.

Congratulations to the winners:

The **Most Favorite Award** went to the project “**Next-generation PCR: Revolutionary Microfluidics Approach for Efficient Multiplex In Vitro Diagnostics**”, presented by *Dr. Yulin Zhang, Sia* and supervised by *Dr. Wenshan Zheng*.

While the **Talent Pitching Award**, given to the project with the highest score from our judges, was awarded to “**3D biomimetic personalized drug screening platform for Acute Myeloid Leukemia (AML)**”, presented by *Dr. Kalyn Cheung, Dr. Jonny Wong* and supervised by *Prof. Barbara Chan*. We appreciate all participants’ outstanding contributions and look forward to seeing these innovative ideas thrive!



Our judges included:

- Ir Dr. Andrew Young (CCDO, Ficus Technology Holdings Limited)
- Dr. Charleston Sin (Cyberport, Board Member)
- Mr. Franco Pang (Senior Investment Manager, Bayland Capital)
- Mr. Henry Tan (Director, MIT Club, Hong Kong)
- Dr. James Chan (Associate Director, Topleap Financial Capital)
- Dr. Joe Mak (Founder and CEO, ANIWARE)
- Mr. Nick Atwater (CEO, Rain Biotech Solutions)
- Ms. Polly Ng (Founder, BWSea Limited)
- Mr. Raymond Law (Partner, Bioworld Ventures)
- Mr. Peter Mok (General Manager, Shenzhen QianHai EHub)
- Mr. Victor Chang (Director, WKK Holdings)
- Mr. Von Lam (Founder and Managing Partner, Increment Capital)
- Dr. Ricky Chan (Founding Chairman, GBA Medical Alliance)

Spotlight on Innovative Spin-Off Companies

We are proud to highlight three spin-off companies participating in this event.



EasePhys offers preclinical animal tests and data processing services for brain-computer interface (BCI) and artificial intelligence (AI) research.



LifeSpectrum is dedicated to enhancing health and wellness through innovative solutions.



Upgrade Biopolymers Limited specializes in plant proteins from agricultural side streams, creating eco-friendly alternatives to fossil-derived materials.

Thank you to all the attendees for their participation and see you at ABIC Pitching Corner 2025!

Raising awareness of Innovation and Technology culture in the community: Showcasing ABIC's Innovations at InnoCarnival 2024



Organized by the Innovation and Technology Commission (ITC), **InnoCarnival 2024** took place from 26 Oct to 3 Nov at the Hong Kong Science Park. The event raised awareness of the Innovation and Technology (I&T) culture, fostering a vibrant community that embraces creativity, collaboration, and progress. An intense I&T atmosphere is crucial for cultivating talent within the community.

This year's InnoCarnival also provided a platform to showcase groundbreaking innovations in the Greater Bay Area. ABIC proudly presented two cutting-edge inventions at the both HKU and ITC booths, highlighting the advancements in the field.

"A Thermal Activation-Based Particle Engineering Technology for the Discovery of New Drug Cocrystals as Inhaled Therapy"

Developed by Prof. Aviva Chow, Dr. Kam Hung Low, and Dr. Si Nga Wong

"Flowformer"

Developed by Prof. Anderson Shum and Dr. Zhenyu Yang

Both inventions have received prestigious awards at the Geneva International Exhibition of Inventions 2024! ABIC is thrilled to promote innovation and technology culture at the event.



DAVOS SUMMIT 2024

The iCANX Davos Summit 2024, brought together world-leading figures from various fields to share their latest achievements, insights, and leadership in Innovation, Science, Technology, Investment, Management, and Entrepreneurship (ISTIME). ABIC is proud to announce that we have achieved remarkable success at this prestigious event.

ABIC is honored to have won the third prize of Startup Award.



Representing ABIC, Founding Centre Director and Co-Director Prof. Anderson Shum, was granted the privilege of delivering a presentation in Davos, Switzerland, where he shared a comprehensive overview of the Centre's distinct qualities, projects and cutting-edge business model.



Additionally, we are delighted to congratulate our Co-Principal Investigator, Prof. Lizhi Xu, on attaining the prestigious iCANX Young Scientist Award.

ICANX - DAVOS SUMMIT

The iCANX Startup Award is a new annual event launched this year, aimed at fostering the transfer of scientific and technological innovations from academia to the international market and industry community.

Our innovation projects have been recognized with awards at international invention contests for the consecutive years!

PRIX EIFFEL 2024

This year, Prof. Aviva Chow, and his team — Dr. Si Nga Wong and Dr. Miniqi Fu — have achieved recognition for their groundbreaking project, “A Thermal Activation Technology Platform for New Inhaled Drug Development”. The invention integrates the controlled thermally activated cocrystallization technology with particle engineering via spray drying.

- Achievements include:
- PRIX EIFFEL 2024 Platinum Medal Award
 - Special Award by Toronto International Society of Innovation & Advanced Skills (TISIAS)
 - EUROINVENT Excellence in Innovation Award
 - Special Award by Turkish Inventors Association (TÜMMİAD)



iCAN 2024

ABIC received an award at the iCAN FINALS of the 9th International Invention Innovation Competition in Canada (iCAN 2024), organized by TISIAS.



The project “Saliva Mental: Dog Wellness Assessment Ball”, supervised by Prof. Anderson Shum and developed by Dr. Ziyu Han, Mr. Chi Song, and Dr. Qiaoyi Wang, was awarded the **Silver Medal and Certificate of Excellence from iCAN 2024**.

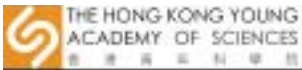
“Saliva Mental: Dog Wellness Assessment Ball” is a pet healthcare system technology that offers a saliva-based test kit for stress hormone detection in dogs. The kit features a user-friendly collection ball, antibody-based test strips, and a mobile app for mental profile analysis.

The honors granted by these international awards affirm our Centre’s groundbreaking accomplishments in successfully translating scientific discoveries into valuable healthcare solutions.

Teaching and Learning

the collaborative aspect of knowledge-sharing and the nurturing of future talent in the field of biomedical innovation

ABIC was honored to host insightful visits for groups of secondary school students from Hong Kong Young Academy of Sciences (YASHK) and the Hong Kong Young Industrialists Council (HKYIC).



As part of YASHK’s educational project, “How to Start a Research Project Workshop”, students from Form 1 to Form 5 were treated to an inspiring lineup of talks by ABIC’s experienced researchers. Mr Madhav Gupta demonstrated the potential of quantum technology, while Dr Qiaoyi Wang explained how mental health could be assessed from saliva. Ms. Ruihong Weng explored the future of brain-computer interfaces.



Prof. Aviva Chow highlighted the need for new lung disease treatments. He also encouraged DSE students by sharing his educational journey as a teenager, inspiring them to believe in the many opportunities available for their study pathways.

The students toured ABIC’s state-of-the-art laboratories and engaged in insightful dialogues with home-grown scientists and international interns.



ABIC had the pleasure of hosting another visiting tour from HKYIC's programme 「75周年國慶青少年創科探索日」 for students from secondary schools in Tai Po district, their parents, teachers, and principals.



Prof. Anderson Shum, ABIC Founding Centre Director and Co-Director was honored to attend the opening ceremony, giving an inspiring remark to the students.



Our researchers, Dr. Qiaoyi Wang and Dr. Dickson Siu, showcased our latest project presentations during tour, inspiring curiosity and engagement among the students and visitors.



ABIC is delighted to support program initiatives such as YASHK's and HKYIC's that nurture our next generation. Seeing the students' boundless energy and passion for discovery was truly inspiring. We look forward to welcoming more young minds to our Centre in the future, collaboratively pushing the boundaries of biomedical innovation!