

Appendix

About HKSTP's Experience Centre

The Experience Centre located at Science Park, the 370 square meter area provides immersive experience featuring an inspirational and interactive journey of seven zones, 300+ tech components powering 30+ multimedia exhibits to present Hong Kong's innovation stories in truly original and stimulating ways. Visitors will interact with real tech that transforms our lives and businesses and explore human imagination in strategic areas, including AI & Robotics and Biomedical Technology.

Website: <https://www.hkstp.org/our-community/park-life/experience-centre/>

About InnoHK Research Laboratories of CUHK

In collaboration with world-renowned universities, such as Oxford, Cambridge, ETH Zürich, Imperial College London, Karolinska Institutet, the InnoHK research laboratories established under CUHK are major contribution to Hong Kong's development of innovation.

Covering health, biomedicine, robotics and artificial intelligence, the InnoHK research laboratories, with the state-of-the-art laboratories and facilities, apply research discoveries to realise ideas into commercialised healthcare products with a view to benefiting the community and building a better future of the healthcare system in Hong Kong.

1. Microbiota I-Center

With top-notch researchers from The Chinese University of Hong Kong (CUHK), University of Chicago, The University of Melbourne and University of Cambridge, the newly founded Microbiota I-Center (MagIC) focuses on advancing science in the gut microbiome and promoting entrepreneurship. It is committed to developing a novel class of microbiome diagnostics and live biotherapeutics for common diseases including obesity, cancer, autism, inflammatory disorders and COVID-19, that will not only transform lives of patients and their families, but also accelerate Hong Kong into a world-class microbiome biotechnology hub.

Overseas Collaborating Institutions: University of Cambridge, The University of Chicago and The University of Melbourne

Website: www.magic-inno.com

2. Multi-Scale Medical Robotics Center

Positioned to enable translational research on and productisation of novel surgical robotic technologies, the Multi-Scale Medical Robotics Center (MRC) serves as a synergistic platform for transdisciplinary collaborations of clinicians, engineers, and researchers from local and overseas top-rank universities, through the R&D programmes of Endoluminal Multi-scale Robotic Platforms for Diagnostics and Therapeutics, Magnetic-guided Endoluminal Robotic Platform, and Imaged-Guided Robotic Interventions. The Hybrid Operating Room of the MRC Lab is a first-of-its-kind facility in Asia that is fully dedicated to R&D and preclinical evaluations of new surgical robots and medical devices via live animal and cadaveric studies.

Overseas Collaborating Institutions:ETH Zürich, Imperial College London, and Johns Hopkins University

Website: www.mrc-cuhk.com

3. Center for Neuromusculoskeletal Restorative Medicine

The Center for Neuromusculoskeletal Restorative Medicine has been established to advance biomedical research and development related to neuromusculoskeletal medicine. Combining the expertise in stem cells, biomaterials, 3D bioprinting, tissue engineering, and personalised and translational medicine of The Chinese University of Hong Kong and Sweden's Karolinska Institutet, the Center is devoted to restoring structure and function to injured, diseased and degenerated (due to ageing or trauma) neuromusculoskeletal tissues and organs. This multi-disciplinary, international consortium aims to apply convergent principles and technologies of biomedical science and engineering to ultimately address mobility impairments and improve patients' overall well-being.

Overseas Collaborating Institution: Karolinska Institutet

Website: <https://www.cuhk.edu.hk/english/research/innohk-centres/neuromusculoskeletal.html>

4. Centre for Novostics

The Centre for Novostics (Novostics), with the meaning of novel diagnostics, aims to push forward the frontier of molecular diagnostics. Novostics will focus on the development of cutting edge diagnostics based on cell-free nucleic acids in blood and other bodily fluids, particularly around prenatal diagnosis and cancer diagnostics.

With its experience in developing prenatal testing of fetal chromosome disorders, the Centre plans to extend the work to single gene disease and other pregnancy-associated conditions. A combination of genomic, epigenomic, transcriptomic and fragmentomic technologies will be employed to tackle bottlenecks in cancer diagnostics and investigate the tissue origin of malignancy by circulating nucleic acid analysis, particularly for cancer types prevalent in Hong Kong, mainland China and Asia. These research areas will accelerate the application of liquid biopsy and promote Hong Kong as a leading molecular diagnostic centre in the world.

Overseas Collaborating Institutions: University of Oxford, UCL Great Ormond Street Institute of Child Health, Great Ormond Street Hospital for Children NHS Foundation Trust, and Imperial College London

Website: www.novostics.hk

Appendix

About the Faculty of Medicine, The Chinese University of Hong Kong (CU Medicine)

CU Medicine was set up to meet the needs of society by providing graduates with the professional development and knowledge that equips them to be caring and competent medical practitioners. As a young medical school established in 1981, the Faculty ranks among the world's top 30 medical schools in the QS World University Rankings by Subject 2022.

We have a team of over 1,200 full-time teaching and research staff from 19 departments/schools covering the entire range of research and clinical disciplines. We encourage collaborative working between scientists and clinicians across disciplines and specialties, and remain at the forefront of the translational medicine revolution. Our Faculty members excel in tackling challenging health problems, making a memorable impact on patients' lives and the wider society.

CU Medicine has won an internationally renowned research reputation for its encouraging environment for the effective pursuit of world-class research as well as remarkable contributions from team members.

More information about CU Medicine is available at <http://www.med.cuhk.edu.hk>.

About Hong Kong Science and Technology Parks Corporation

Hong Kong Science and Technology Parks Corporation (HKSTP) has for 20 years committed to building up Hong Kong as an international innovation and technology hub to propel success for local and global pioneers today and tomorrow. HKSTP has established a thriving I&T ecosystem that is home to three unicorns and Hong Kong's leading R&D hub with over 11,000 research professionals and over 1,100 technology companies focused on healthtech, AI and robotics, fintech and smart city technologies.

Established in 2001, we attract and nurture talent, accelerate and commercialise innovation and technology for entrepreneurs on their journey of growth in Hong Kong, to the Greater Bay Area, Asia and beyond. Our growing innovation ecosystem is built around our key locations of Hong Kong Science Park in Shatin, InnoCentre in Kowloon Tong and three modern INNOPARKs in Tai Po, Tseung Kwan O and Yuen Long. The three INNOPARKs are realising a vision of re-industrialisation for Hong Kong. The goal is sectors like advanced manufacturing, electronics and biotechnology are being reimagined for a new generation of industry.

Through our infrastructure, services, expertise and network of partnerships, HKSTP will help establish innovation and technology as a pillar of growth for Hong Kong, while reinforcing Hong Kong's international I&T hub status as a launchpad for global growth at the heart of the GBA innovation powerhouse.

More information about HKSTP is available at www.hkstp.org.