

since 1981



FACULTY OF MEDICINE

The Chinese University of Hong Kong

# Dean's Message

CU Medicine is a top medical school in Asia with a relatively young history. Since its establishment in 1981, the Faculty has been committed to making a difference to the world by improving people's health through advanced healthcare, medical education and research.

We direct our unremitting efforts to the creation of an exciting and vibrant atmosphere for students to pursue a quality integrated medical and health science education. Another of our missions is to nurture researchers and innovators who translate scientific discoveries into medical advances that would contribute to global healthcare improvement and benefit humankind.

Our Faculty members work across disciplines with international experts and have made collaborative discoveries which have changed global clinical practice and shifted treatment paradigms. We have achieved regional and world firsts in many research and procedures and gained a reputation as a pioneer in some of the world's most advanced surgical technologies and techniques.

We take great pride in our achievements of being ranked amongst world's most elite medical schools. All these have been made possible with the firm support of the Government, donors in both the public and private sectors, our alumni and the Faculty's collaborators around the world. We shall continue to serve the local, national and global communities with passion and determination.



**Professor Francis K.L. CHAN, SBS, JP**  
MBChB(Hons), MD(CUHK), DSc(CUHK),  
Hon DSc(Osaka City U), FRCP(Lond),  
FRCP(Edin), FRCP(Irel), FACG, FHKCP,  
FHKAM(Med), FRCP(Thai)





Since its establishment in 1981, CU Medicine has been committed to making a difference to the world by improving people's health through advanced healthcare, medical education and research.

CUHK Medicine

CU Medicine operates and develops in the spirit of its motto

**“Transforming Our Passion into Perfection”**, which highlights our determination to strive for the best in the interest of patients under its care, and society at large.

Currently, the Faculty has five schools and 14 departments, with a regular teaching staff of over 400 academics and professionals and approximately 3,000 adjunct/honorary Faculty members.







Our mission is to empower tomorrow's leading physicians and scientists by offering our students rewarding and fruitful learning experiences. The ultimate goal of our efforts in medical education and research is to advance human health and alleviate the suffering caused by diseases. Faculty members work in a multidisciplinary approach to apply the most advanced knowledge and technology in clinical care to improve treatment outcomes.



## International Ranking and Global Recognition

In recent years, CU Medicine has been ranked amongst the world's top 50 medical schools in QS World University Rankings and the Times Higher Education World University Rankings.





# The Philosophy of Education at CU Medicine

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We uphold our determined and resolute  
commitment to innovation, creativity, ethics,  
compassion and professional development.

**CU Medicine is a place for individuals with the vision,  
potential, passion and dedication to making a difference!**



# Undergraduate Programmes

CU Medicine is fully committed to establishing strategic partnerships and creating global alliances with institutions of complementary strengths. By developing meaningful and sustained collaborations through student exchange, training and research with institutions of major international standing, we aim to create a mutually beneficial synergistic situation for all parties. By leveraging on international partnerships, we aim to maximize the positive impact of our work in medical education and the advancement of medical practice.

## We offer nine undergraduate programmes under our five Schools.

- Bachelor of Chinese Medicine (BCM)
- Bachelor of Medicine and Bachelor of Surgery (MBChB)
- Bachelor of Medicine and Bachelor of Surgery Programme Global Physician-Leadership Stream (MBChB-GPS)
- Bachelor of Nursing (BNurs)
- Bachelor of Science in Gerontology (BScG)
- Bachelor of Science in Biomedical Sciences (BSc in Biomedical Sciences)
- Bachelor of Science in Community Health Practice (BSc in Community Health Practice)
- Bachelor of Science in Public Health (BSc in Public Health)
- Bachelor of Pharmacy (BPharm)







# Postgraduate Programmes

CU Medicine is a bastion of public health services and the origin of many groundbreaking medical discoveries and surgical innovations. Students receive first-class comprehensive training by means of

**more than 50 postgraduate programmes**

offered by five Schools and 14 teaching departments. A vibrant student life, an engaged alumni network, and an unyielding spirit for innovation and breakthrough further contribute to the unique learning culture at CU Medicine.







# Innovative Education Model

At CU Medicine, everyone could be an innovator, or an innovator-to-be, continuously reimagining the treatments and practices set out to help those in need. The innovation is inspired by a shared vision of, and commitment to, great work and perfection.

In addition to attending lectures and receiving clinical training, students also have ample opportunities to participate in physical examinations and clinical procedures as well as broadening their knowledge through online courses. Over the years, many of our scientific achievements have changed how the world understands, diagnoses and treats diseases.







# Teaching Resources & Facilities

CU Medicine provides students with various learning platforms and state-of-the-art teaching and learning facilities, with classrooms and laboratories equipped to the highest standards.

We are now implementing short, medium and long-term work projects for teaching, learning and related student support to meet the increase of healthcare-related degree intakes and further our world-class research.

With continuous enhancement of teaching and learning facilities, our students are provided with state-of-the-art hardware to facilitate their pursuit of a first-class medical education.







# CU Medicine's Research

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CU Medicine translates scientific discoveries into medical advances that would benefit humankind and contribute to global healthcare improvement.



# CU Medicine's Research Frontiers & Strategic Direction

CU Medicine believes in the synergy between research in basic biomedical science and potential clinical translation and we are devoting efforts to both areas.

Riding on our current research strengths, we aim to promote excellence in interdisciplinary research that will help to create, advance and render knowledge applicable to the improvement of the human condition, by tackling grand challenges and fulfilling societal needs on local, national and global scales.

To facilitate the translation from research to application, in CU Medicine, there is strengthened interface between research and knowledge transfer, and academia-industry and community partnerships are highly supported and encouraged.





# Research Flagships

## Asian Prevalent Cancers

CU Medicine has a long tradition of cancer research and care in the local and international communities. We have shifted the paradigm of cancer therapy and will continue to do so to respond to the needs of the time. Our researchers are global leaders in cancers prevalent in Asia, including lung, liver, nasopharynx and breast cancers.



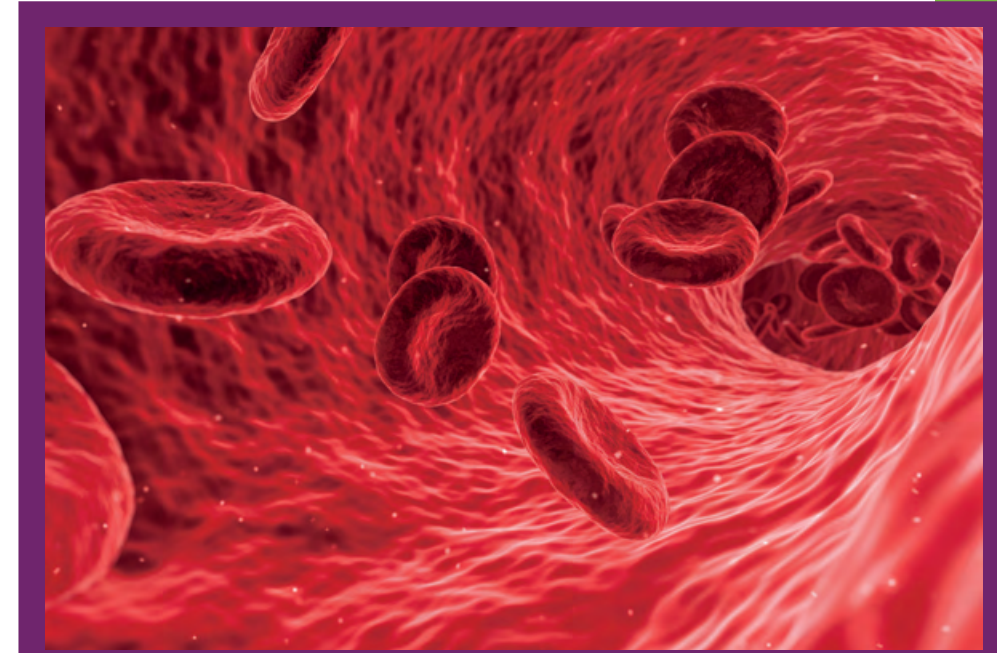
## Circulating DNA

CU Medicine is at the forefront of the clinical application of genomics. Researchers from our Faculty have pioneered the field of non-invasive prenatal diagnosis following our discovery of fetal DNA in maternal plasma in 1997. Since then, we have developed a robust, non-invasive prenatal test for Down syndrome that is used by millions of pregnant women in over 90 countries around the world. The team has also developed maternal plasma DNA-based approaches for the non-invasive screening of other fetal chromosomal and subchromosomal aneuploidies.

Our researchers are also prominent in cancer genomics, especially in liver and nasopharyngeal cancers. We are, inter alia, the first to show that the plasma Epstein-Barr virus (EBV) DNA analysis is useful for screening early asymptomatic nasopharyngeal carcinoma.

## Digestive diseases

The State Key Laboratory of Digestive Disease at CU Medicine consists of a world-leading team of scientists and clinicians working at the forefront of GI research, including cancer and related diseases. Our work covers the whole genome profiling of GI cancers for the development of novel diagnostic biomarkers and drug targets, the delineation of the role of gut microflora in GI diseases, and the management of peptic ulcer bleeding. We also pioneered endoscopic treatment of various GI diseases.



## Metabolic diseases

CU Medicine has more than 20 years of experience in research involving the understanding of the epidemiology of diabetes in Asia and made substantial contributions to the prevention and treatment of diabetes and its complications.

We use the latest genomic technologies to discover novel genetic and other molecular markers associated with diabetes and diabetic complications, identifying individuals at risk for early intervention and providing new biological targets for drug development. We are also developing biomarkers linked to treatment response in order to provide better, more tailored treatments for patients.



# Advanced Research Resources & Facilities



CU Medicine continually invests in resources and enhances research facilities to ensure our researchers and students are able to access the most advanced equipment, with which they may be facilitated to pursue their ideas, undertake cutting-edge research and transfer their knowledge.







# CU Medicine's Clinical Innovation & Advancement

CU Medicine is a world as well as regional leader in new clinical applications and pioneers some of the world's most advanced surgical technologies and techniques.





# Medicine & Therapeutics

We have achieved regional and world-firsts across many areas of clinical research and procedures, covering cardiology, endocrinology and diabetes, gastroenterology and hepatology, geriatrics, neurology, nephrology, respiratory medicine and rheumatology.

We have a strong interest in telemedicine and conduct regular multidisciplinary teleconferencing and tediagnosis with institutions in Hong Kong, the mainland and overseas. During the ongoing COVID-19 outbreak, our team has utilized the technology to ensure delivery of care, with online consultations and remote medical advice.





# Surgical Advancement

For decades we have been a pioneer in the development of Robotic Surgery in Asia.

The CUHK Jockey Club Minimally Invasive Surgical Skills Centre (MISSC) was established in 2005 to introduce the first robotic surgical system to Hong Kong. The Centre is also the first multi-disciplinary surgical skills training centre in the Asia-Pacific region, and Asia's first accredited robotic surgery training centre in 2008.



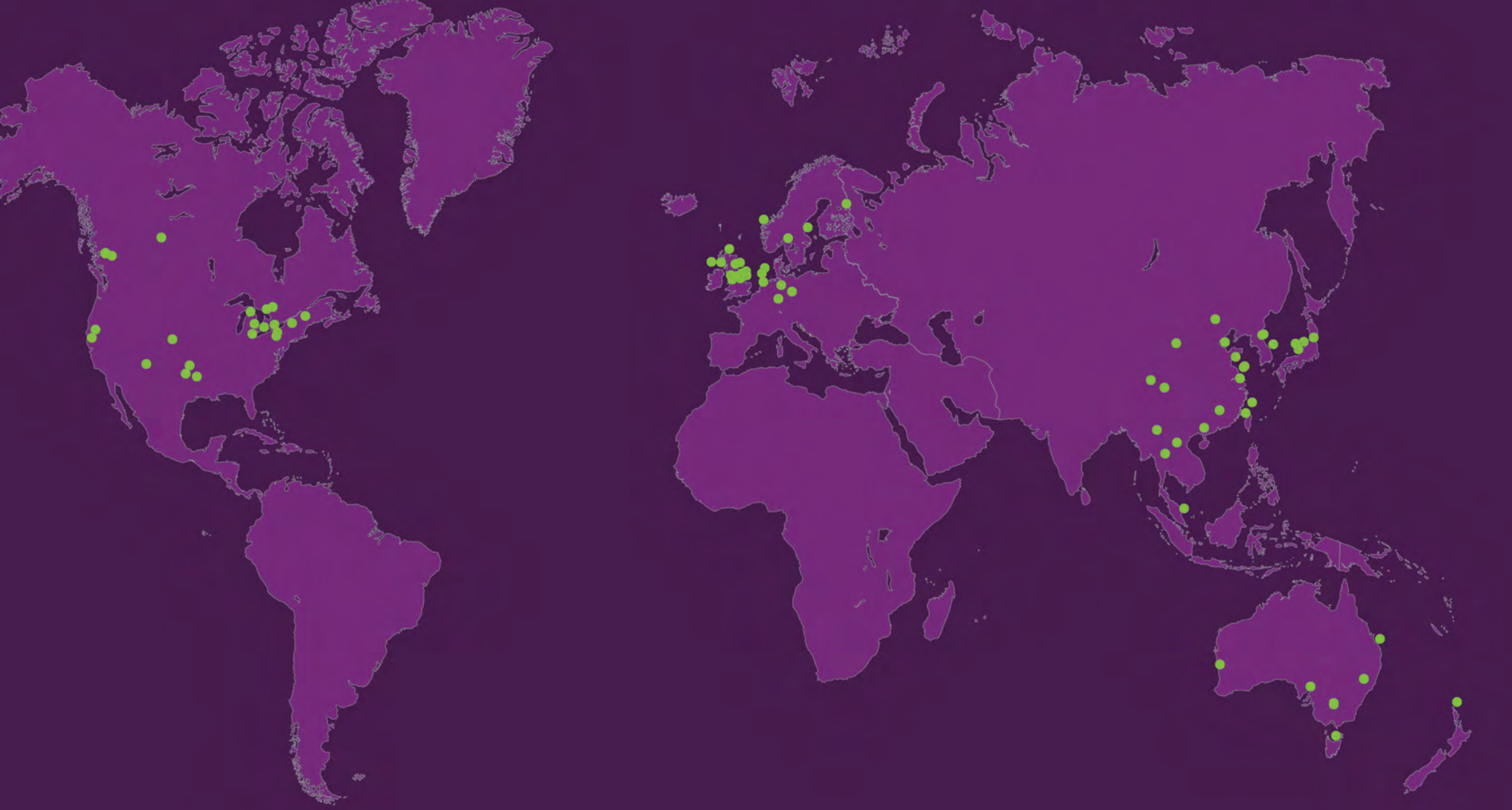
Our surgeons were also the first to introduce the clinical applications of robotic surgery in Urology, Colorectal Surgery, Upper GI Surgery, Cardiothoracic Surgery and Hepatobiliary Surgery. Our world's first accomplishments include the multi-disciplinary study on clinical application of the novel Da Vinci Single Port Surgical System for prostatectomy, colorectal surgery and otorhinolaryngology, head and neck surgery; and the world's first performance of colorectal endoscopic submucosal dissection, using a flexible robotic system for treatment of early colorectal neoplasia.

We have close and in-depth collaboration with the CUHK Engineering Faculty and many

Overseas Strategic Partners. The Chow Yuk Ho Technology Centre for Innovative Medicine serves as a platform enabling synergistic collaborations between clinicians and engineers to advance medical innovations and technologies. The Multi-Scale Medical Robotics Centre (MRC) was established under the HK Government's AIR@InnoHK programme to enhance clinical translation of cutting-edge robotic technologies: MRC has a world-class research laboratory of 8,000 square feet dedicated for preclinical animal and cadaveric research in endoluminal robotics, magnetic-guided robotics endoluminal interventions and image-guided robotic surgery, with a view to clinical translation.







# CU Medicine is a Global Institution in Asia

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CU Medicine is committed to establishing strategic partnerships and creating global alliances with institutions of complementary strengths. By developing deep collaborations in student exchange, training and research with institutions of high standing in international academia, we aim to create a synergistic situation that benefits all parties concerned.





# International Partnership

CU Medicine is among the nine core institutions of the Global Alliance of Medical Excellence, a strategic international network of medical schools that share a common interest in promoting innovative medical education and undertaking impactful research across Asia, Australia, Europe and North America.





Source: Prof. Emily Ying Yang Chan, CCOUC



# Humanitarian & Community Services

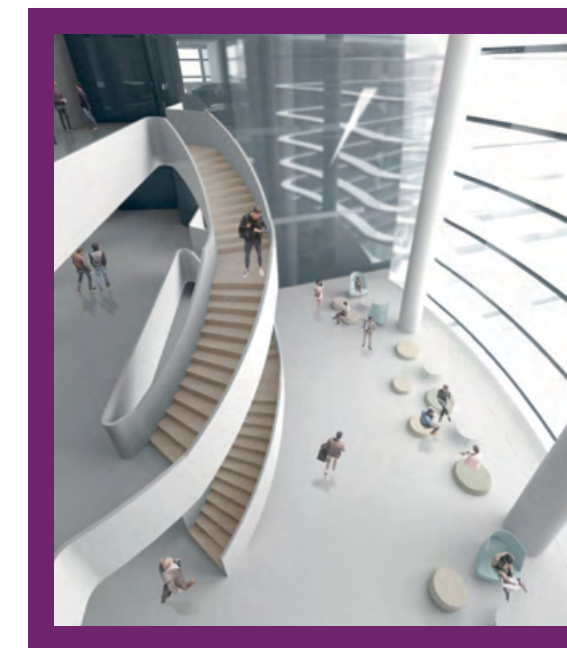
Passion and compassion are vital aspects of patient care. CU Medicine encourages students to join and lead community health projects local and abroad, so as to develop skills in patient interface, and explore the qualities needed to succeed as a healthcare professional.





# Way Forward

It is an exciting time for CU Medicine to witness the opening of the new private teaching hospital, operated as part of the University. We also anticipate with great hope and readiness the wide range of state-of-the-art teaching and research facilities under the Faculty's various expansion schemes. CU Medicine will certainly continue to be a leader in the provision of the best teaching, research and clinical services.





# CUHK Medical Centre

The CUHK Medical Centre (CUHKMC) is the new non-profit, private teaching hospital, wholly owned by CUHK. Drawing from the clinical and teaching expertise of CU Medicine, CUHKMC will expand the capacity of healthcare provision in Hong Kong and form another excellent base to train medical students and healthcare providers.







# Faculty Expansion Project

CU Medicine is implementing short, medium and long-term works projects to continuously optimize teaching and research facilities for the furtherance of its world-class education and research.

## Short-term:

Upgrading the facilities of the Choh-Ming Li Basic Medical Sciences Building, the main site for pre-clinical training. Expansion of teaching space and enhancement of teaching laboratories, classrooms and nursing simulation wards.

## Medium:

Building a new teaching-research complex in Area 39 of the CUHK campus. The Complex will house state-of-the-art lecture theatres for international conferences; core laboratories equipped to the best standards, biobanks, bioinformatics/data centres and animal holding areas to facilitate research projects that will earn high international regard.

## Long-term:

Building a multi-purpose building that enhances clinical teaching and translational research work, and a 600-place ancillary student residence in the Prince of Wales Hospital, our teaching hospital.



*Transforming our* **Passion into Perfection**





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