

HKU Med News

Volume 26 Issue 1 | July 2021

**AND
THE PRIZE
GOES TO ...**



Medical affairs and
hygiene are truly the
roots of the affairs
of men.

Dr Sun Yat-sen

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The Troop



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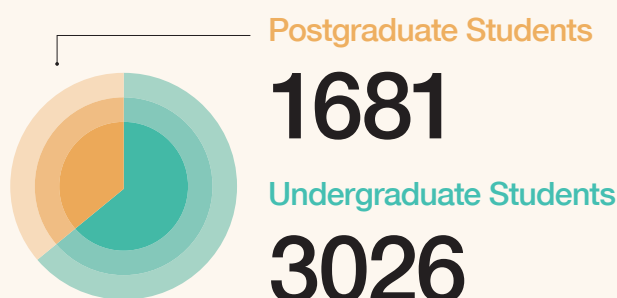
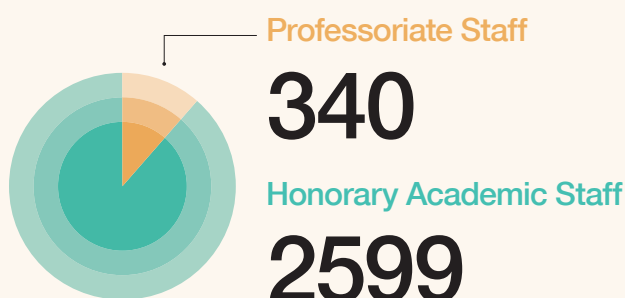
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The Faculty in 2020[^]



Postgraduate Education

- The Faculty currently offers 10 taught postgraduate programmes in 2020-21.
- The Faculty admitted 236 Research Postgraduate (RPg) students in 2020-21. Eleven of our new PhD students have been awarded Hong Kong PhD Fellowships by the Research Grants Council (RGC), 17 have been awarded the HKU Presidential PhD Scholarship, and 16 have been awarded University Postgraduate Fellowships.
- Ms Chong Pit-shan** 張碧珊 (Mphil, School of Biomedical Sciences) and **Dr Derek Lee** 李揚俊 (PhD, Department of Pathology) won the Li Ka Shing Prizes, and **Dr Li Xinran** 李欣然 (PhD, School of Biomedical Sciences) won the Outstanding Research Postgraduate Student Award.
- Eight postgraduate students were awarded other prizes in 2020, including the Dr KP Stephen Chang Gold Medal for PhD students, KAN Shin Yu Chinese Medicine Postgraduate Research Prizes, Sir Patrick Manson Gold Medal for MD students, Chan To Haan Prize for Research Postgraduate Students in Pathology, Professor Anthony Hedley Prize for Master of Public Health, BL Wong Memorial Prize in Nursing Studies, the Lau Wing Kai Memorial Prizes in Nursing Studies and the Best Evidence Based Practice Dissertation/Clinical Research Project Award for Master of Nursing 2019-2020.

Undergraduate Programmes (full-time)

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Total
Bachelor of Medicine and Bachelor of Surgery	305	269	187	261	229	224	1475
Bachelor of Nursing	201	196	205	224	207	-	1033
Bachelor of Chinese Medicine	22	25	24	21	21	26	139
Bachelor of Pharmacy	37	31	14	30	-	-	112
Bachelor of Biomedical Sciences	59	62	58	42	-	-	221
Bachelor of Science (Exercise and Health)	-	-	-	-	3	1	4
Bachelor of Arts and Sciences in Global Health and Development	21	21	-	-	-	-	42

Research Grants

Research grants awarded to Faculty members totalled

HK\$565.915 million

RGC General Research Fund

71 Projects | HK\$ 74.583 m

Health and Medical Research Fund (HMRF)

118 Projects | HK\$ 139.48 m*

Health and Medical Research Fund (HMRF) Commissioned Grant

29 Projects | HK\$ 172.037 m

RGC Theme-based Research Scheme

4 Projects | HK\$ 61.088 m

Innovation and Technology Fund

33 Projects | HK\$ 29.18 m

Others

46 Projects | HK\$ 89.547 m

Research Output

- The Faculty's refereed research output saw 1,755.4 items produced in 2019-2020, accounting for 39.1% of the University's total of 4,493.2 refereed items. The output included important publications in *The New England Journal of Medicine*, *The Lancet*, *Journal of the American Medical Association*, *Nature* and *Science*, etc.
- According to Clarivate Analytics, our researchers have published 375 Highly Cited Papers, and 4 staff members are listed as Highly Cited Researchers. As of July 2020, among 127 HKU staff on the list of Top 1% scholar, 54 of them are from HKUMed, making up 42.5% of the Top 1% scholar in HKU.

Public Education

Public lectures/ Symposia/ Forums	81
Media interviews and press conferences	186
Health programmes on television and radio (excluded expertise and comments related to COVID-19 on TV and radio)	259
Regular newspaper columns	100
Media coverage generated (included expertise, comments, functions and activities related to COVID-19)	13,587

* Provisionally awarded

HKUMed's Outstanding Performance in RAE 2020

Results of Research Assessment Exercise (RAE) 2020 announced by the University Grants Committee (UGC) in May 2021 confirms the research excellence of HKUMed and its leading position in medical research among local institutions.

HKUMed's Performance

1,015

Research Output
Submitted by HKUMed

70%

Overall Research Quality
Rated 4* or 3*

100%

Research Impact
Rated 4* or 3*

100%

Research Environment
Rated 4* or 3*

Of the 1,015 research outputs submitted by HKUMed for RAE 2020, 70% were rated 4* (world leading) or 3* (Internationally excellent) by UGC's international panel. In particular, HKUMed has the highest percentage of 3* and 4* ratings in the Units of Assessment (UoA) of Clinical Medicine, Pre-Clinical Studies, Nursing, Optometry, Rehabilitation Sciences and Other Health Care Professionals, each exceeding 70%. More than 60% of Chinese medicine research projects also scored 3* or above in RAE 2020.

HKUMed's research performance in RAE 2020 also witnessed a significant improvement from the previous RAE in 2014 with the overall 3* or above ratings rising to 70% from 42.5%. In the aforesaid research areas, the 3* or above ratings were up to as much as 2.18 times of those six years ago.

Being the sixth research quality assessment exercise conducted by UGC since 1993, RAE 2020 is the first time that 'research impact' and 'research environment' have been included in its assessment framework. In these two new criteria, HKUMed attained 100% 3* or above ratings across all relevant UoAs. This is a clear indication that HKUMed's research projects are not only academically outstanding, but also with profound impact beyond academia. It also speaks loudly and positively about HKUMed's tireless efforts to provide a favourable environment to facilitate research of world-leading or internationally recognised quality.

Overall Assessment in Relevant UoA

HKUMed has the highest percentage of 3* and 4* ratings in the following Units of Assessment compared with other local institutions:

Clinical Medicine

76%

Rated 4* or 3*

Pre-Clinical Studies

72%

Rated 4* or 3*

Nursing, Optometry,
Rehabilitation Sciences and Other
Health Care Professions

71%

Rated 4* or 3*

Chinese Medicine

61%

Rated 4* or 3*

Period of Assessment

Oct 1, 2013 – Sept 30, 2019

RAE 2020 Assessment Framework

Research Outputs	70%
Research Impact (<i>new</i>)	15%
Research Environment (<i>new</i>)	15%
Overall	100%

Panels	13
Units of Assessment (UoA)	41

Panel Members	361
Non-local scholars	70%

Submissions Assessed	
UGC-funded universities	8
Research outputs	16,000
Eligible academic staff	4,200
Research impact case studies	340
Research environment statements	190

For results of RAE 2020, please refer to the following website:
<https://www.ugc.edu.hk/eng/ugc/activity/research/rae/2020/results.html>

Assessment for

Research Outputs

WORLD LEADING



INTERNATIONALLY EXCELLENT



Research Impact

OUTSTANDING IMPACTS



CONSIDERABLE IMPACTS



Research Environment

ENVIRONMENT CONDUCTIVE TO PRODUCING
RESEARCH OF WORLD-LEADING QUALITY



ENVIRONMENT CONDUCTIVE TO PRODUCING
RESEARCH OF INTERNATIONALLY
EXCELLENT QUALITY



And the Prize Goes to...

實至名歸 得獎者言

The COVID-19 pandemic has underscored the importance of using science to monitor health threats and the dangers of ignoring its warnings. HKUMed scholars have for years been at the global forefront in identifying and investigating emerging infectious diseases and how to contain and manage them. Since the pandemic outbreak, that work has proved its value many times over as other scholars, governments and international organisations have repeatedly referenced the findings in addressing COVID-19.

As a result, several of our researchers recently received international recognition. Over the next few pages, we will introduce the people behind these achievements, including **Professor Malik Peiris** and **Professor Guan Yi**, who are at the very top of the field of emerging infectious disease research; and **Professor Zhang Tong** who, unusually for a public health contributor, is a member of the Department of Civil Engineering but has led a team including HKUMed scholars to develop a method of detecting COVID-19 outbreaks from sewage samples. **Professor Chen Honglin**, originally an influenza expert, is now leading a team of experts to develop a strong vaccine candidate for COVID-19 that can be administered nasally. **Professor Leo Poon Lit-man** of School of Public Health and **Professor Jin Dong-yan** of School of Biomedical Sciences are each leading a team of scientists on COVID-related research, which have secured more than HK\$110 million from the Research Grants Council (RGC). Dean of HKUMed, **Professor Gabriel Leung** is among one of the scientists in the global team that has developed a trailblazing solution to detect novel infectious diseases using readily available data and analytics, which has earned them the second prize at The Trinity Challenge.

We also highlight the international recognition received by **Professor Kathryn Song Eng Cheah** and **Professor Khong Pek-Lan**, who are stellar examples of excellence in our other areas of expertise. Professor Cheah's outstanding achievements in biological research has earned her the Medal Lecture Award from the British Society for Matrix Biology. Professor Khong heads the Department of Diagnostic Radiology and was recently honoured for her leadership in the field, particularly her promotion of women and Asian radiologists.

HKUMed congratulates our members on their achievements. Such excellence is only possible through strong teamwork and collaboration, backed by support from society. With these foundations, we look forward to making further marks of greatness in medicine and public health.

新冠病毒疫情揭示了利用科學監察各種健康風險的重要性，以及忽視各種警號的巨大危機。港大醫學院的學者多年來在發現及調查新興傳染病、如何防控及管理這些疾病方面，始終穩踞領導全球的地位。自新冠病毒疫情爆發以來，我們的研究成果屢獲世界各地學者、政府及國際組織徵引，作為他們應對疫情的導航燈，更彰顯我們有關工作的價值。

為此，我們多位研究者最近獲得國際認可，在接下來的專題中，我們將介紹這些成就的幕後功臣，包括**裴偉士教授**及**管軼教授**，兩位都是新興傳染病研究方面首屈一指的專家；另有公共衛生方面的稀客**張彤教授**，他來自港大土木工程系，領導包括港大醫學院學者的團隊，研發了從污水樣本中檢測新冠病毒的方法。**陳鴻霖教授**原是研究流感的專家，目前領導的專家團隊已研發一種效用強大、但尚在測試階段的噴鼻式新冠病毒疫苗。公共衛生學院**潘烈文教授**與生物醫學學院**金冬雁教授**分別統籌兩項有關新型冠状病毒病的研究，共獲研資局撥款超過1億1,000萬元。院長**梁卓偉教授**有份參與的國際團隊，利用數據分析，研發可預早偵測新興傳染病的創新方法，並獲得The Trinity Challenge 二等獎。

我們也特別表揚在其他醫學領域表現出眾的**謝賞恩教授**與**孔碧蘭教授**。謝賞恩教授在生物學的卓越成就，獲得英國基質生物學會的肯定，並將於2022年為該學會發表主題演講。孔碧蘭教授是放射診斷學系的系主任，最近就她在推動女性和亞裔人士擔任放射治療師方面的貢獻而獲得嘉許。

港大醫學院謹向各位同事致賀。他們的驕人成就，既是團隊與夥伴緊密合作的成果，也端賴社會各界的支持。在這些穩固的基礎上，我們期望在醫學與公共衛生方面百尺竿頭，更進一步，創造更多卓越的里程碑。

A Study In World-Class Opposites

Winners of John Dirks Canada Gairdner Global Health Award share the motivations behind their achievements as world-class infectious diseases scientists.

Professor Malik Peiris and **Professor Guan Yi** could not be more different – Professor Peiris is calm, cool-headed and thoughtful, while Professor Guan is fiery, passionate and instinctive. But they have blended these qualities to the world's benefit through their important research on emerging infectious diseases.

Their work has deepened understanding about influenza viruses such as H5N1, H1N1 and H7N9 and the coronaviruses behind SARS and COVID-19, making each of them among the most highly cited scholars in their field. For their achievements, they were jointly awarded the prestigious 2021 John Dirks Canada Gairdner Global Health Award, which honours scientists whose discoveries have had a major impact on science and human health.

Their journeys to their achievements, like their temperaments, have been highly divergent, starting in different countries and even different specialities.

Professor Guan worked in paediatrics for 10 years, rising to the top of his field in Beijing before giving it all up to come to HKU in 1993 to study microbiology under **Professor Ken Shortridge**. His decision raised eyebrows even in the Faculty. 'Ken said to me, you're a senior doctor, you have a one in 10,000 chance to be a success in a new field, why give it up?

I can only say that people always want to try new things. It gives you a new lease on life,' Professor Guan said. 'And if you don't dream big, how can big things happen?' That spirit would later take him tramping through live animal markets, at some personal risk, to collect samples of infectious viruses for his work.

Professor Peiris took a more conventional path. He was fascinated as a teenager by Louis Pasteur, for a reason that is telling: 'I was attracted by his logical approach to conceptual problems such as the germ theory of disease and the application of vaccinations to prevent infectious diseases,' he said. This inspired him to become a researcher, studying in his native Sri Lanka and the UK before coming to HKU as a virologist in 1995. Professor Peiris's steady, methodical approach has enabled him to successfully direct and manage large Areas of Excellence and Theme-based Research Scheme research projects.

The two professors first came together, fittingly, against the backdrop of the world's first outbreak of H5N1 influenza, which proved to be a harbinger of epidemics to come. This was in Hong Kong in 1997, when Professor Guan coincidentally had just defended his PhD dissertation at HKU before examiners who included Professor Peiris. Although that outbreak was brought under control, Professor Guan had a strong hunch that it was still circulating in southern China. With funding from US health agencies, a lab was set up at HKU to monitor emerging influenza viruses and both men were brought on board.



Professor Malik Peiris 裴偉士教授

‘I was attracted by
[Louis Pasteur’s] logical approach
to conceptual problems’

「巴斯德對於概念性的問題都有很清晰的
邏輯思維，也因此深深地吸引著我。」

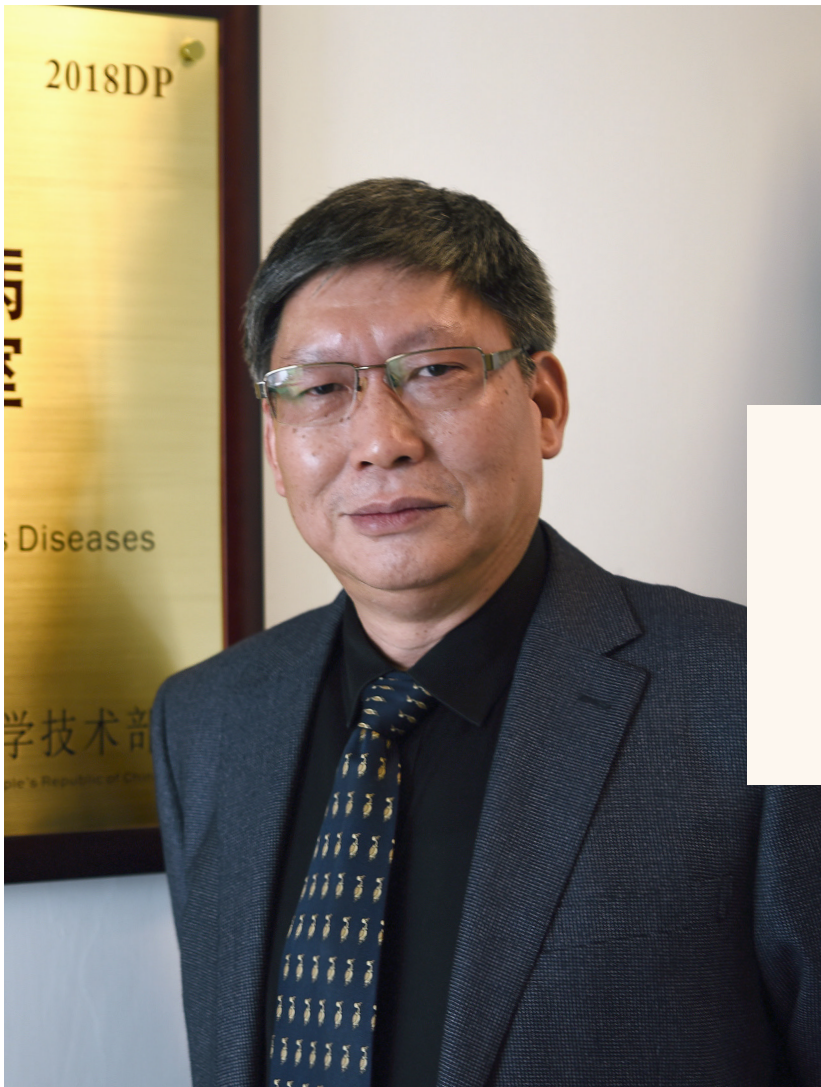
Over the next few years, they produced seminal studies on the emergence, evolution and pathogenicity of H5N1, established a monitoring and surveillance programme, and proposed evidence-based measures to control the virus, including rest days and periodic closures of live poultry markets and poultry vaccines – an approach that, to this day, remains relevant for controlling emerging infectious viruses.

They applied the same diligence towards the SARS virus in 2003. Professor Peiris led a team that was the first to identify the virus responsible for SARS and developed a diagnostic test that was shared internationally. Professor Guan’s team found the source of the virus – the human-wildlife interface of the live animal markets of Guangdong.

Similar detective work has been applied to H1N1 (swine flu), H7N9, Middle East Respiratory Syndrome

(MERS) and other emerging viruses. Professor Peiris and his team have also produced new insights on the disease burden of influenza and its transmission.

Their success extends beyond the lab – both scholars advise the World Health Organization (WHO) on vaccine candidates for its annual influenza vaccination programme. And recently, their body of work has provided important guidance and insights for the world on tackling the SARS-CoV-2 virus behind the COVID-19 pandemic. In addition, Professor Peiris was pivotal in an early research report (February 2020) suggesting that COVID-19 was likely to transmit more like flu than like SARS in 2003 and, with **Professor Leo Poon Lit-man**, was involved in the first diagnostic protocols for detecting SARS-CoV-2 – which was shared with the WHO – while Professor Guan sounded an early alarm about the pandemic in January 2020, warning it would be far worse than anything they had studied before.



Professor Guan Yi 管軾教授

**‘If you don’t dream big,
how can big things happen?’**

「如果夢想不夠大，怎能做大事呢？」

Reflecting on their achievements, the two scholars, unsurprisingly, wear different lenses. Professor Guan relishes trailblazing in search of virus samples and the joy of new discoveries. ‘I treat science as an art. I have published a small number of papers, but each one has been pristine, a beautiful piece of work. For each paper, I know the date I submitted it, the date it was accepted and the date it was published,’ he said. ‘I have been so lucky to have all this training at HKU. I grew up at HKU.’

Professor Peiris reflects on not only his research successes but also missed family events, such as Christmas and birthday gatherings, due to the need to respond to new threats. He is matter-of-fact in narrating the story of his and Professor

Guan’s achievements, but his patience cracks when he considers the cost to the world of ignoring scientists’ warnings about a coming pandemic.

‘The lesson we can draw from COVID-19 is, first and foremost, that the human hubris we seemed to have that we could cope with anything, was highly misplaced and overstated,’ he said. ‘The same train wreck is in danger of repeating itself with other threats, like climate change, ecological devastation and loss of biodiversity, which are more slow-burning than COVID but will have greater, more far-reaching consequences. We hope and pray that at least COVID may serve as an impetus to respond more aggressively to these other issues, which science has also clearly highlighted to us.’

世界級研究 在冷靜與熱情之間

約翰·狄克斯加拿大蓋爾德納全球衛生獎得主分享：

促使他們委身科研、成為世界級傳染病研究學者背後的動力。

裴偉士教授和管軼教授的性格南轅北轍：裴偉士教授冷靜沉著、思慮周全，管軼教授則充滿熱情、直覺敏銳，但是這兩位世界知名的新發傳染病研究學者，卻能夠互相配合，成就造福人類的重要研究項目。

兩位教授的研究幫助醫學界加深對H5N1、H1N1和H7N9等流感病毒，以及引致嚴重急性呼吸系統綜合症(SARS)和新型冠狀病毒病(COVID-19)的冠狀病毒的認識。他們的研究論文廣為國際間同儕學者徵引。兩人憑著傑出的學術成就，在2021年雙雙獲頒約翰·狄克斯加拿大蓋爾德納全球衛生獎。這項榮譽是為了表彰對科學和人類健康作出重大貢獻的學者而設立。

裴教授和管教授的研究之路，一如二人迥異的性格，是從不同國家、不同的研究範疇出發。

管教授在1993年加入港大醫學院跟隨**邵力殊教授**從事微生物學研究之前，在北京已是一位具有十年資歷的兒科醫生，在內地的小兒專科中也早有聲望。他徹底改變研究範疇的決定，讓很多人甚至是醫學院裡的同事都感到驚訝。他說：「邵力殊教授跟我說：『你已經是資深醫生，但是你在新範疇裡成功的機會只有萬分之一，那麼，為甚麼你要放棄已經擁有的成績？』我隻可以說，人總要做新嘗試，人生才会有新動力。如果夢想不夠大，怎能做大事呢？」也就是這股衝勁，促使他冒著生命危險到野生動物市場搜集傳染病毒的樣本。

裴教授則是按著傳統求學之路一步一腳印的走來。念初中的時候，他很仰慕路易·巴斯德，他解釋說：「巴斯德對於概念性的問題，比如是致病細菌的理論，以及預防傳染病的疫苗應用，都有

很清晰的邏輯思維，也因此深深地吸引著我。」巴斯德啟發了他走上研究之路，他先在家鄉斯里蘭卡、繼而在英國完成學業，然後在1995年加入港大醫學院從事病毒學的研究。裴教授以他那沉穩踏實的性格、井然有序的研究方向，帶領及管理多個重要的卓越學科領域計劃和主題研究計劃，成績斐然。

兩位教授合作無間的機緣，始於全球首次爆發H5N1禽流感的時候，那次影響深遠的禽流感正好預示了往後接踵而來的流行病。時值1997年，管教授仍是港大醫學院博士生，剛完成論文答辯，而裴教授正好是論文口試委員之一。雖然後來H5N1禽流感的疫情受到控制，但是管教授有強烈直覺認為這個病毒仍然在華南地區流傳。由於醫學院獲得多個美國衛生組織的資助，設立了一個監測新發流感病毒的實驗室，裴教授和管教授同時獲委任成為研究員。

往後數年，兩人對H5N1流感的出現、演變、致病性等方面進行了開創性的研究，他們建立了病毒監測及監控系統，又提出實證為本的措施控制病毒，其中包括活家禽市場定期休市、為家禽注射疫苗等。直到今天，這些預防措施依然被視為控制新發傳染病毒的有效方法。

及至2003年沙士爆發，裴教授與管教授一如以往奮力應對疫情。由裴教授帶領的團隊，在全球率先辨識引致沙士的病毒，並研究出一個診斷測試，隨即與全球分享。而管教授領導的團隊則在人類與野生動物的接觸點——廣東省的野生動物市場裡，找到病毒源頭。

‘The lesson we can draw from COVID-19 is the human hubris ... that we could cope with anything, was highly misplaced and overstated.’

「我們從新型冠狀病毒病學到的首要教訓，就是人類的傲慢。我們自以為可以掌控任何事情，其實根本就是錯放重點和誇大其詞。」

– Professor Malik Peiris 裴偉士教授

在H1N1 (豬流感)、H7N9、MERS (中東呼吸綜合症) 及其他新發病毒出現時，兩位教授也進行同樣的偵測工作。裴教授和他的團隊對於流感帶來的疾病負擔和其傳播，還提出了新見解。

裴教授和管教授的貢獻不只限於實驗室內，他們兩人同時是世界衛生組織的顧問，每年為季節性流感疫苗接種計劃的候選疫苗提供建議。去年新型冠狀病毒病大流行肆虐之際，他們過去的工作為全世界應對新病毒提供了重要的指引和真知灼見。此外，裴教授在去年二月疫情開始不久後發表的一份研究報告中亦擔當重要角色。報告指出新型冠狀病毒的傳播方式，比起2003年的沙士病毒，更接近流感病毒的傳播方式；裴教授又與**潘烈文教授**一起制定全球首個偵測新型冠狀病毒的診斷模式，並與世衛分享研究成果。而管教授早在去年一月已經對這次的大流行發出預警，提醒大家疫情的嚴重性將會遠超他們過去研究時遇見過的。

對於自己的研究成就，兩位學者的感受截然不同，而對於他們迥異的態度，我們一點不感到驚訝。管教授對於找尋病毒樣本，以及在研究上追求新發現的先行者角色，很是樂在其中。他說：「我視科學如藝術；我出版的論文不多，但是每一份都有其開創性，像美麗的藝術品一樣。我會記得我提交論文的日期、論文獲接納的日期、論文發表的日期。我很幸運能夠在港大醫學院接受所有相關的訓練。我是在香港大學成長的！」

裴教授不僅想到個人的研究成就，還有因為要迅速應對新病毒的威脅而缺席的家庭活動。在他如實陳述個人和管教授合作的研究工作和成績時，談到整個世界因為當初忽略科學家發出大流行即將來臨的警告而付出沉重代價時，他顯露出少有的激動。

他說：「我們從新型冠狀病毒病學到的首要教訓，就是人類的傲慢。我們自以為可以掌控任何事情，其實根本就是錯放重點和誇大其詞。在面對地球其他威脅時，我們還會繼續重複犯錯，好像是氣候變化、生態災難和生物多樣性消失，這些問題不會如新型冠狀病毒病驟然來臨，卻像慢火煎熬，產生的影響將會更巨大、更深遠。我們希望並且祈求，至少新型冠狀病毒病可以帶來一股推動力量，讓我們能夠對其他議題作出更積極的回應，而科學家早已就這些議題很清楚地警告了我們。」

Playing For The Team

Professor Khong Pek-Lan, Honorary Member of ESR, looks back at her 14-year journey as Head of Diagnostic Radiology at HKUMed.



Professor Khong Pek-Lan 孔碧蘭教授

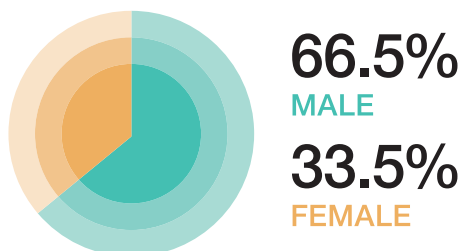
Dressed in black and slight in appearance, **Professor Khong Pek-Lan** has the demeanour of a serious and quiet scholar. But that impression soon melts away to reveal a bubbly personality eager to make every endeavour her best – a quality that has made her a leader in radiology in Hong Kong and the region.

As Head of the Department of Diagnostic Radiology for 14 years, she has greatly expanded its size and capacity and been active in the international radiology community where apart from her involvement in paediatric and oncologic imaging, she has promoted Asian and women radiologists. For her leadership and achievements, she was invited in March to be an Honorary Member of the European Society of Radiology (ESR), only the second from Hong Kong to achieve this after Dr Lilian Leong in 2003.

Professor Khong came to Hong Kong in the early 1990s from her native Singapore for specialty training, initially in surgery. But when a position came up in radiology – a field much less prominent than it is today – her instincts told her there would be future opportunities. 'I jumped in and it was probably one of the best career decisions I have made,' she said.

She went on to pursue further training as a paediatric radiologist in Birmingham, UK

Global Radiologists from 26 Countries



Source: Carter et al, 'Bridging the Gap: Identifying Global Trends in Gender Disparity Among Radiology Physician Workforce,' *Academic Radiology* 25.8 (2018), pp. 1052-1061.

and Boston, USA before joining HKU's Department of Diagnostic Radiology in 2000, eager for the chance to do research. It was not all smooth sailing at first because the Faculty lacked its own diagnostic imaging machines (she had to use Hospital Authority machines when available). But around 2007, several things happened simultaneously that propelled her career.

She completed her MD and was awarded the Sir Patrick Manson Gold Medal for outstanding merit in her thesis. She was appointed department head, having spent a year as the Faculty's Associate Dean for external relations. And the Faculty coincidentally received a donation of a PET/CT scan, soon followed by acquisition of an MRI scanner, which she was tasked with managing. 'It was exciting because we could start to build our own research based on this equipment,' she said.

The income from the machines enabled her to recruit more staff and the department grew from about three staff when she became head – the numbers fluctuated – to about 50 today, including clinician-academics, non-clinical scientists, postgraduate students and fellows, and support staff.

'My first priority has always been the department's advancement rather than my own research.'

「我一定會把學系的發展放在首位，然後才考慮個人的研究。」

– Professor Khong Pek-Lan 孔碧蘭教授

Professor Khong switched her specialty to cancer research to make the most of the new equipment, but most of all she wanted her staff to shine. 'My first priority has always been the department's advancement rather than my own research.'

All these experiences, however, cannot overcome the lure of home. Professor Khong will join the National University of Singapore this year with the hope to grow their radiology department much as she has built up HKU's, and spend more time with her family. It has not been an easy decision given the close relationships she has built with her colleagues in Hong Kong.

'It's hardest to leave behind my friends and colleagues – I treasure the times we've shared in the 30 years I've called Hong Kong my home,' she said. 'It's been a really enjoyable and rewarding journey; what a privilege it's been to serve at HKU.'

一切爲了團隊

在獲邀成為歐洲放射學會(ESR) 榮譽會員之際,孔碧蘭教授回首擔任港大醫學院放射診斷學系系主任碩果累累的十四年。

孔碧蘭教授身穿黑裙、身型纖瘦,言談舉止之間流露著學者認真而沉靜的氣質。不過,這種冷靜嚴肅的印象很快便消融,代之而現的是事事求精、充滿熱情幹勁的個性,而這樣的特質,正好讓她成為香港以至亞洲區的放射醫學權威。

孔碧蘭教授擔任港大醫學院放射診斷學系系主任長達14年之久,期間她大力拓展系內的人員編制和提升科研能力,同時積極參與國際放射診斷的學術活動,在參與小兒腫瘤放射造影的研討之餘,還致力提拔亞洲及女性的放射科專才。孔教授出色的領導才能和卓越的科研成就,讓她在今年3月獲歐洲放射學會(ESR)頒授榮譽會員資格。她是繼2003年梁馮令儀醫生之後,第二位獲得此殊榮的香港女性。

孔教授在上世紀90年代初從新加坡來到香港接受外科專科訓練,後來知道瑪麗醫院放射科有空缺,雖然在當時來說放射醫學的重要程度大不如今天,但是她的直覺告訴她未來的機會就在那兒。她說:「我毫不猶豫地寄出申請信,這大概是我職業生涯中其中一個最正確的決定。」

在2000年加入港大醫學院放射診斷學系之前,孔教授曾遠赴英國伯明翰和美國波士頓接受兒童放射醫學的訓練,而加入港大則是因為她渴望有更多研究機會。不過起步的時候,並非一帆風順,因為醫學院連一部醫學造影儀器也沒有,她必須待醫院管理局的造影機有空檔時才使用。幸而到了2007年接連發生了幾件好事情,順利地推展了她的工作。

孔教授在那一年取得醫學博士學位,更獲得白文信爵士優秀醫學博士論文金獎。她又在擔任醫學院外務副院長之職一年後,於2007年獲聘為放射診斷學系系主任。同年,醫學院獲得捐助購買正電子電腦掃描機,之後又購入一台磁力共振掃描儀器,而這些都需要由她去管理。孔教授說:「大家都很興奮,因為有了儀器便可以開展研究了。」

從掃描器提供醫學診斷服務所得的收入,讓學系可以招募更多職員。在孔教授出任系主任的時期,系內最初只有三名職員,期間儘管人數有增減,但是到了今天,職員總數已增加至50多人,包括臨床教學人員、非臨床科研人員、博士研究生,以及行政支援人員。

孔教授為了把新儀器充分利用,還把個人的研究範疇轉移到癌症研究,但是她最想做到的,是幫助教研人員發光發亮,盡展所長。「我一定會把學系的發展放在首位,然後才考慮個人的研究。」

多年來與學系一起成長,與同事並肩奮鬥,但是這些經歷,都抵不過回家的渴望。孔教授將於今年秋季加入新加坡國立大學帶領放射學系發展,就像她過去在港大醫學院領導放射診斷學系茁壯成長那樣;此外,她將會有更多時間與家人共享天倫。儘管如此,要離開長時間建立親厚關係的同事,確實是很不容易的決定。

她說:「想到要離開我的朋友和同事,便感到很難過。我很珍惜過去30年在香港的時光和經歷,我會視香港為我的家。這一段時間是我收穫滿滿、樂在其中的旅程,我真的很榮幸能夠為香港大學服務那麼多年!」

Astro-Nomical Achievements

The Gold Medal award winners at the 2021 Inventions Geneva Evaluation Days talk about their fruitful collaboration in developing the sewage COVID-19 virus surveillance system.

Man and machine come together in the Japanese cartoon character AstroBoy, a part human-part robot superhero. Fittingly, AstroBoy also adorns the lab coat of **Professor Zhang Tong** of the Environmental Microbiome Engineering and Biotechnology Laboratory of the Department of Civil Engineering, whose work fuses engineering solutions to human health concerns.

Professor Zhang worked with School of Public Health (SPH) scholars to devise a method of using sewage samples to detect hidden COVID-19 cases – work that has become a key plank in the government’s efforts to contain outbreaks and won the Gold Medal award at the 2021 Inventions Geneva Evaluation Days.

‘At the beginning, even we did not have much confidence that it would be effective or that we could do this on a large scale. Things have developed so fast,’ he said.

The project started in April last year when Professor Zhang, an expert in wastewater microorganisms and treatment, was approached by Hong Kong’s Drainage Services Department about detecting SARS-CoV-2 in sewage to protect their staff. He brought in the School of Public Health (SPH), with which he had collaborated on another project investigating antimicrobial resistant bugs in hospital wastewater. ‘We know the sewage,

and they know the epidemiology,’ he said.

Professor Zhang’s laboratory began to collect samples from community sewage, condense the samples, and extract RNA with the team of **Dr Hein M Tun** of SPH, a public health researcher. This was then forwarded to **Professor Leo Poon Lit-man’s** team in the same school to discern whether SARS-CoV-2 was present in the samples.

By summer, the early warning potential of this approach began to bear fruit: sewage samples from two buildings tested positive for the virus even though the buildings had no reported cases (multiple cases were later detected). ‘This was when we realised the assays were working,’ Professor Poon said. ‘We did this for every sample, and every sample was huge,’ Dr Tun said.

The technique enabled the HKU team to find the proverbial needle in a haystack and led to a larger, one-year project funded by the Health and Medical Research Fund, under which daily samples have been collected from 26 stationary sites since last October, **Professor Gabriel Leung**, Dean of Faculty of Medicine, and **Professor Malik Peiris** from SPH. In mid-November, that project proved its worth when the HKU team began to detect SARS-CoV-2 virus in sewage samples taken from different areas of Hong Kong – days before COVID-19 cases were confirmed in those areas.



Professor Zhang tracked the progress with the happy enthusiasm of his cartoon namesake, checking his phone repeatedly for updates. 'I remember one night I showed my wife our table of hotspots – it had so many red spots where the virus was found in sewage. Soon after that there were many cases reported in the community. That was the beginning of Hong Kong's fourth wave.'

In late December, following three consecutive days of positive signals from sewage samples in Fung

**'Sewage may tell the health of a city,
and we are learning how to listen to it.'**

**「污水可以告訴我們一個城市的健康狀況，
我們正在學習如何傾聽。」**

– Professor Zhang Tong 張彤教授



Chak House, the government decided to issue its first compulsory testing notice. The research had thus provided evidence that became the basis for government policy.

The team subsequently developed methods to identify COVID-19 variants in sewage. The new testing method was applied in early June to test a sewage sample collected on May 2, 2021 from Hing Wah (II) Estate (Chai Wan), and successfully identified positive signals of N501Y and other mutations of the Beta variant (known as B.1.351, first identified in South Africa). A positive case involving the COVID-19 Beta variant in that area had been confirmed on May 7, 2021. Recently, they also detected the Delta variant in a sewage collected from Tai Po on June 21, providing early warning signal for the community before the first clinical Delta variant case was found on June 23, 2021.

These successes are a welcome reward for the researchers, who initially spent months until late in the evening, sometimes midnight, processing samples so the results could be reported to the government by the next morning.

'This is a good story about collaborations among different faculties and between the University and the government,' said Professor Zhang, who is keen to share the credit and maintains a childlike wonder at the possibilities of science. 'Our role in sewage surveillance can help not just with COVID-19, but other human pathogens, too. Sewage may tell the health of a city, and we are learning how to listen to it.'

「飛」一般的成就

跨學科團隊研究利用污水樣本檢測新冠病毒個案， 並贏得 2021年日內瓦國際發明展金獎。

日本漫畫主角「小飛俠」阿童木是半人半機械的超級英雄。他「飛」落在土木工程學系環境微生物組工程與生物技術實驗室張彤教授的實驗袍上，更顯得恰如其分，因為張教授的工作同樣是將工程學的方案，應用於解決人類健康的問題上。

張教授與公共衛生學院攜手合作，制定了利用污水樣本檢測新冠病毒個案的方法——這是政府賴以控制疫情的重要措施之一，並贏得2021年日內瓦國際發明展金獎。

張教授表示：「到底檢測污水是否有效，或者能否大規模地做，我們最初也不抱太大信心。但事情的發展實在太快了。」

張教授是污水微生物及污水處理的專家，去年四月渠務署聯絡他，表示希望在污水中檢測新冠病毒SARS-CoV-2，以保障員工的健康。他隨即聯絡公共衛生學院，因他曾與公衛學者合作進行另一項有關醫院污水中抗生素抗性細菌的研究：「我們熟悉污水，而他們熟悉流行病學。」

張教授的實驗室隨即開始在社區收集和濃縮污水樣本，並和公共衛生學院黃世萬博士的團隊一起，從中提取核糖核酸（RNA）。然後與該學院的潘烈文教授合作，檢測這些RNA，以確定污水樣本中是否含有新冠病毒。

去年夏天，這項檢測方法的預警潛力逐漸開花結果：其中兩幢樓宇的污水樣本對新冠病毒呈陽性反應，但當時並無任何確診個案，其後才陸續發現多宗確診。潘教授表示：「直到那一刻，我們才知道檢測是有效的。」黃世萬博士表示：「我們逐一檢測所有樣本，而每個樣本都意義重大。」但這項技術讓港大團隊真正能夠在大海裡撈針。

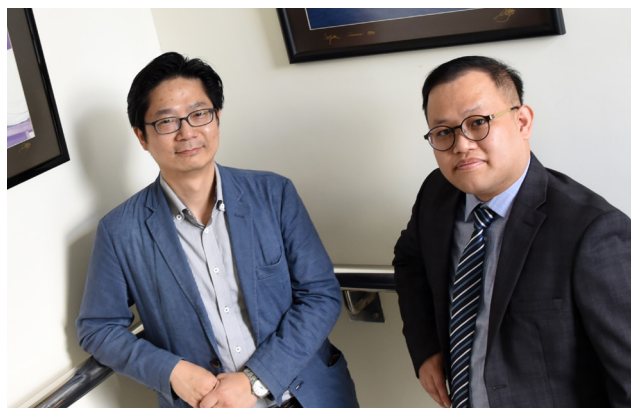
‘We did this [processed samples until late evening] for every sample, and every sample was huge.’

「我們逐一檢測所有樣本，
而每個樣本都意義重大。」

– Dr Hein M Tun 黃世萬博士

這項技術讓港大團隊真正能夠在大海裡撈針，並促成了由醫療衛生基金資助，為期一年、規模更大的研究項目。同樣由張彤教授領導，港大醫學院院長梁卓偉教授及公共衛生學院裴偉士教授也提供了不少意見。去年十月起，研究人員每天在26個固定地點採集污水樣本。十一月中旬，港大團隊開始在香港不同地區採集的污水樣本中發現新冠病毒，而且往往是在有關地區發現確診個案之前數天，充分彰顯這個項目的價值與貢獻。

張教授以「小飛俠」的開朗和熱情追蹤研究的進度，在訪問期間屢次檢查手機看更新。「記得有個晚上，我給太太看熱點圖表——圖表上滿布紅點，就是在污水中發現病毒的地方。沒過多久，社區出現了很多確診個案，那就是香港疫情第四波的開端。」



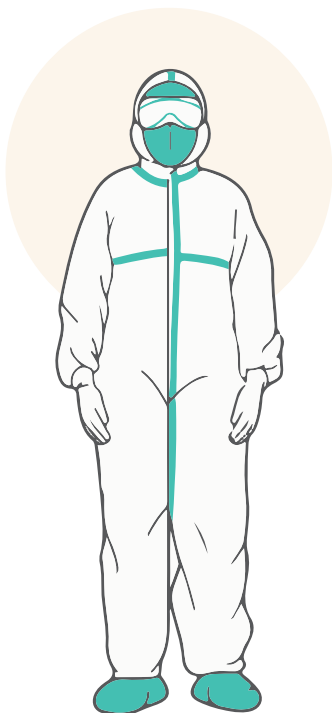
Professor Poon Lit-man (left) and Dr Hein M Tun 潘烈文教授（左）及黃世萬博士

The Procedure of SARS-CoV-2 Detection in Sewage

利用污水樣本檢測新冠病毒的流程

*depends on sample size

Before 8am
Select sewage
manholes and set up
揀選污水沙井，準備採樣



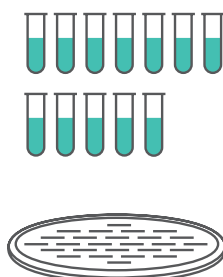
8am – 11am
Sample Collection
進行污水採樣



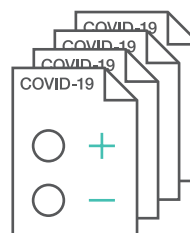
11am – 11pm / midnight
Sample analysis*
樣本檢測



Sample taken
every 15 min
每15分鐘採樣一次



Results
獲得檢測結果



直至十二月底，在豐澤樓連續三天出現污水對新冠病毒呈陽性的檢測結果後，政府決定頒布第一份強制檢測公告。換言之，這項研究的結果，為政府政策提供了實證基礎。

團隊最近再研發出有效檢測污水中變種新冠病毒的技術。新的污水變種檢測方法6月初應用在柴灣興華(二)邨在5月2日所收集到的一個污水樣本中，成功測出Beta變種(即最早在南非發現的B.1.351突變株)的N501Y和其他突變點的陽性信號。該處於5月7日曾確認了涉及β變種的陽性病例。近日，團隊更在大埔一個於6月21日收集的污水首次檢測到Delta變種，在相關變種病例於6月23日被初步確診之前為社區提供了早期預警信號。

對於過去數月來宵衣旰食，努力不懈地處理污水樣本，務求於第二天早上向政府準時匯報檢測結果的研究人員來說，上述成果都是令人欣慰的鼓勵。

‘[After multiple cases were later detected] was when we realised the assays were working’

「直到(陸續發現確診者的)那一刻，我們才知道檢測是有效的。」

– Professor Leo Poon Lit-man 潘烈文教授

張教授毫不吝嗇將功勞歸於合作夥伴，而且仍像孩子一樣為科學的無限可能而驚嘆：「這是大學各院系之間，以及大學與政府攜手合作的典範。我們在污水監測所扮演的角色，不但有助檢測和應對新冠病毒，也可以應用於其他人類的病菌病毒。污水可以告訴我們一個城市的健康狀況，我們正在學習如何傾聽。」

The Vaccine Innovators

An intranasal spray vaccine developed by the HKUMed team was awarded the Gold Medal with Congratulations of the Jury at the 2021 Inventions Geneva Evaluation Days.

A team of scientists with deep experience in infectious diseases, led by **Professor Chen Honglin**, has developed a new vaccine candidate against the COVID-19 virus that has attracted strong support at the regional and international levels.

The vaccine is unique in being expressed from influenza viral vector and delivered via a nasal spray, which means the upper respiratory tract – the first line of immunity for infections – can be specifically targeted. Moreover, it can be produced by any influenza vaccine manufacturer, does not require special handling, and can be administered to all age groups.

‘We are slower compared to other vaccine frontrunners because a nasal spray vaccine takes longer to develop, but our vaccine can still play an important role,’ Professor Chen said. ‘It is being considered a second-wave vaccine that could boost immunity after people are vaccinated with other vaccines, or even if they are infected directly with the virus.’

The vaccine was awarded the Gold Medal with Congratulations of the Jury at the 2021 Inventions Geneva Evaluation Days in March. It is also the first vaccine ever to undergo a Phase One clinical trial in Hong Kong, which began in April and received an enthusiastic response of interest when recruiting volunteers (it has already had a Phase Two trial in Mainland China).

On December 31, 2019, when Professor Chen was about to board a flight to the US, his phone rang and it was **Professor Yuen Kwok-yung**, calling about a new emerging infectious disease in Wuhan. ‘That day, we began to work on this virus,’ Professor Chen said.

Fortunately, he already had a novel vaccine platform at hand. A few years earlier, he and his team had knocked out the NS1 gene from the NS segment in an influenza virus, identifying important adaptative mutations that help the virus replicate and evade its host’s immune system; they then inserted a Receptor-Binding-Domain (RBD) of MERS coronavirus in its place. The approach



showed vaccine potential for both influenza and coronaviruses, but it was not until COVID-19 that it received funding support for further development.

By the end of January last year, Professor Chen and his team had synthesised the RBD of SARS-CoV-2 virus from scratch and successfully inserted it into their vaccine model. The international Coalition for Epidemic Preparedness Innovations and the Hong Kong government took note and offered funding, while Professor Chen was able to arrange collaborations with Xiamen University and Hualan-Bio, Wantai and Chang Chun BK corporations.

‘This vaccine is a marvellous piece of success that demonstrates both innovation and cohesive teamwork between basic scientists, clinician scientists and clinicians,’ Professor Yuen said.

Among the senior colleagues supporting Professor Chen, Professor Yuen has provided the

‘It is being considered a second-wave vaccine that could boost immunity after people are vaccinated with other vaccines, or even if they are infected directly with the virus.’

「此疫苗可以視之為第二波疫苗，可應用於接種其他疫苗後，甚或感染新冠病毒後接種，用以增強免疫力。」

– Professor Chen Honglin 陳鴻霖教授

SARS-CoV-2 sample isolated from a Hong Kong patient, the development of the hamster model for virus challenge in vaccine testing, critical advice, and facilitated its development with various bodies; **Professor Chen Zhiwei** has provided valuable advice and help in immunology work; and **Dr Wang Pui** has overseen the planning, designing and execution of the project’s experimental plans.

‘It has been a fascinating journey,’ said Dr Wang. ‘We never thought of the outcome when we started developing our prototype bivalent vaccine a few years ago. We just hope that it can now contribute to solving the pandemic problem.’

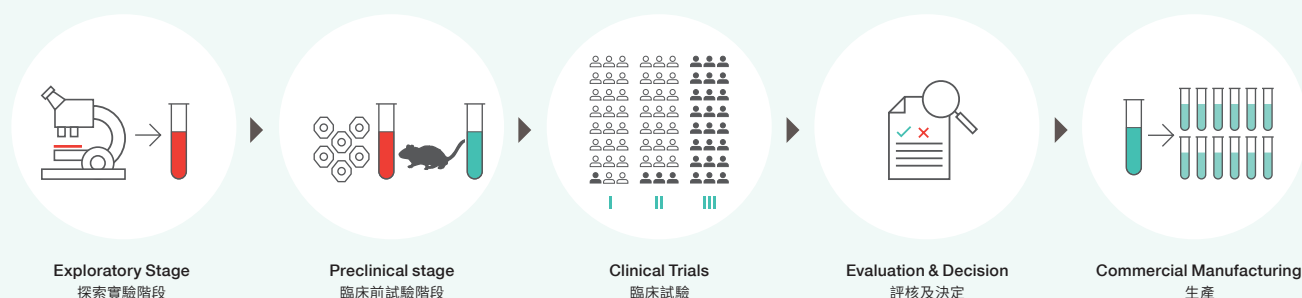
Professor Chen Zhiwei has even grander ambitions. ‘Our vaccine will be essential for inducing protection at the site of virus entry – currently, few vaccines in emergency use have such advantage. We would like to see this vaccine platform technology developed to fight other human diseases, too, including HIV/AIDS and cancer.’

As for Professor Chen Honglin, his world over the past year has narrowed to his home and office as he has been absorbed in attending Zoom meetings with funders and arranging testing and logistics to bring the vaccine to the wider world. Results from the current clinical trials will be known later this year.

It is all a remarkable turn of circumstances given he initially studied the Epstein-Barr virus in nasopharyngeal cancer and switched to influenza after joining HKU in 2003. He remains a little wistful about how the vaccine has eclipsed his other academic interests. ‘People say to me, now you have more opportunities, more funding. But I like working on influenza because it’s planned, and you can do everything step by step. And I have more time to think,’ he said.

Development of New Vaccines

疫苗研發程序



疫苗創新者

港大醫學院研發噴鼻式疫苗贏得2021年 日內瓦國際發明展「評判特別嘉許金獎」

在**陳鴻霖教授**的帶領下，擁有豐富傳染病學經驗的科學家團隊，研發了針對新冠病毒的候選疫苗，在香港、中國內地以至國際間均獲得廣泛支持。

這款新冠病毒疫苗的獨特之處在於同流感疫苗結合，並以噴鼻方式接種，能直接在與病毒接觸最前線的上呼吸道對抗病毒感染。此外，這款疫苗可由生產流感疫苗的藥廠製造，不需要特別處理，而且適合任何年齡人士使用。

陳教授解釋：「相比其他疫苗先驅，我們的研究步速較慢，因為噴鼻式新冠疫苗需要更長時間研發，但其重要性依然毋庸置疑。此疫苗可以視之為第二波疫苗，可應用於接種其他疫苗後，甚或感染新冠病毒後接種，用以增強免疫力。」

此疫苗於今年三月在2021年日內瓦國際發明展中獲得「評判特別嘉許金獎」，並於四月已在香港開始第一階段臨床測試。這是在香港首次開展疫苗第一期臨床實驗，得到不少參與臨床實驗自願者的支持（該疫苗同時在中國內地也展開了第二期的測試）。

在2019年12月31日，正當陳教授準備啟程到美國，電話響起，耳邊傳來**袁國勇教授**的聲音，他們討論了剛在武漢爆發一種新發傳染病的消息。「從那天起，我們就開始了應對這個新發病毒的研究工作。」

幸而，一切不必由零開始——因為陳教授早期的研究已經建立了一個新型的疫苗載體平台。數年前，陳教授和他的團隊敲除了流感病毒NS基因組中的NS1基因，NS1協助病毒識別和躲避宿主的免疫系統，以及支持病毒複製的重要功能。在2014-15年，研究人員在敲除NS1基因的位置插入中東呼吸綜

合症冠狀病毒（MERS）受體結合域（RBD），證明這種流感病毒載體疫苗可以同時針對流感及冠狀病毒。雖然這種具有一箭雙鵰特點的疫苗技術平台潛力巨大，但此技術一直要等到新冠疫情爆發，才獲得資助並付諸實踐。

2020年一月底，陳教授及其團隊在新冠疫情爆發初期就迅速合成了新型冠狀病毒（SARS-CoV-2）的RBD，並成功將之合成進這流感病毒疫苗載體。全球預防流行病創新聯盟（The Coalition for Epidemic Preparedness Innovations）與香港政府評審此項研究後，同意提供資助，陳教授的團隊隨後與廈門大學以及萬泰、華蘭生物及長春百克（BCHT）三間疫苗公司合作進行疫苗測試。

袁教授指出：「團隊研發的疫苗技術獲得成功，實在令人鼓舞。它展示了基礎科學家、臨床科學家和臨床醫生之間的凝聚力、創新思維及團隊精神。」

多位資深教授對陳教授的研究貢獻良多。袁教授不僅為團隊提供從一名香港患者身上取得的新型冠狀病毒樣本，又利用倉鼠研發了疫苗測試所需的病毒攻擊模型，更提供許多重要的建議，並與各類機構共同推動疫苗研發工作；**陳志偉教授**則為團隊提供免疫學

‘This vaccine is a marvellous piece of success that demonstrates both innovation and cohesive teamwork between basic scientists, clinician scientists and clinicians.’

「它展示了基礎科學家、臨床科學家和臨床醫生之間的凝聚力、創新思維及團隊精神。」

– Professor Yuen Kwok-yung 袁國勇教授

方面的寶貴意見與協助，而**王培博士**則負責監督整個研究的設計、規劃與執行。

王博士說：「這是一段非常有趣的研究歷程。我們幾年前已開始研發原型二價疫苗，但當時沒想過會得出怎樣的成果。現時全球受到疫情影響，我們期望這項疫苗技術能為解決新冠疫情作出貢獻。」

陳志偉教授有更宏大的願景，他指出：「我們研發的疫苗將為病毒入侵人體的部位帶來有效保護，目前很少獲緊急授權使用的疫苗具有這種優勢。我們樂見這種疫苗技術平台得以建立，並用於對抗其他疾病如愛滋病和癌症等。」

至於陳鴻霖教授，過去一年來一直忙於與合作者和資助機構的網絡會議、安排測試及運送疫苗到不同地方等工作之中，生活範圍縮窄至家居和辦公室。至於現階段的臨床實驗結果，將於本年度稍後公佈。

‘We would like to see this vaccine platform technology developed to fight other human diseases, too, including HIV/AIDS and cancer.’

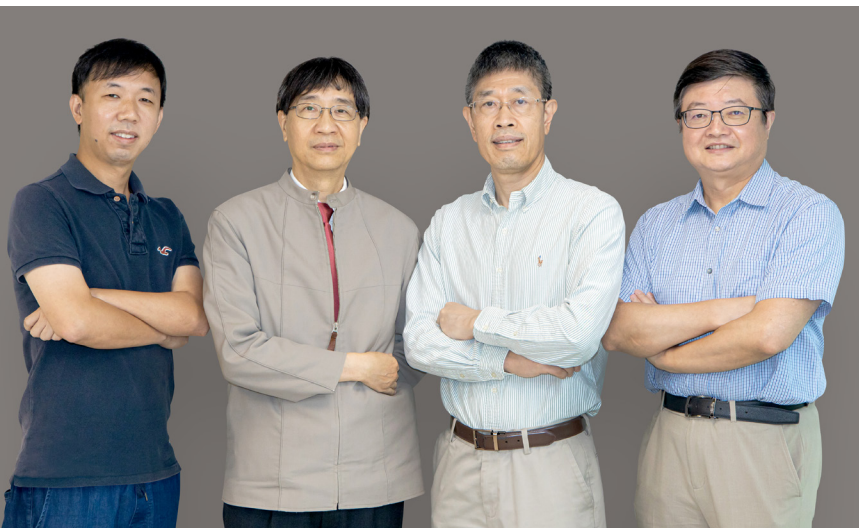
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– Professor Chen Zhiwei 陳志偉教授

‘We just hope that it can now contribute to solving the pandemic problem.’

「現時全球受到疫情影響，我們期望這項疫苗技術能為解決新冠疫情作出貢獻。」

– Dr Wang Pui 王培博士



(Left to right) Dr. Wang Pui 王培博士, Prof. Yuen Kwok-yung 袁國勇教授, Prof. Chen Honglin 陳鴻霖教授, Prof. Chen Zhiwei 陳志偉教授

對於陳教授來說，來到港大不啻是人生另一個重大轉折。他於香港大學因研究鼻咽癌中的第四型人類疱疹病毒 (EBV) 而取得博士學位，2003年成為港大教職員後轉而研究流行性感冒病毒。疫苗技術的研究工作現正進行得如火如荼，陳教授需暫時放下原來進行中的一些科研課題和研究興趣，對此，他帶點懷念地分享：「別人會說從事新冠病毒研究，可獲得許多機會和資助，但我始終熱愛原本從事的EBV和流感病毒研究工作，因為這些工作可以有計劃、按部就班地進行，讓我可以有多點時間思考，不像目前新冠病毒的研究，需要分秒必爭、馬不停蹄地應對疫情的轉變與最新發展。」

Silver Medal Winners at the 2021 Inventions Geneva Evaluation Days

A device that can accelerate fracture healing by applying micromotion and reducing the incidence of nonunion won HKUMed scholars the Silver Medal at the 2021 Inventions Geneva Evaluation Days. **Professor Frankie Leung Ka-li**, of the Department of Orthopaedics and Traumatology, and his team members, Post-doctor Fellows **Dr Feng Xiaoreng** and **Dr Qi Weichen**, invented the plug-in device for common external fixators. It has sensors and controllers to help maintain optimal biomechanical conditions at the fracture site to enhance callus formation.

2021年日内瓦國際發明展銀獎得主

由港大醫學院團隊研發、有助傷者骨折部位盡快復元的治療裝置，在2021年日内瓦國際發明展獲得銀獎。此項用於治療骨折的插件式裝置，由矯形及創傷外科學系**梁加利教授**、**馮小仍博士**及**戚威臣博士**團隊研發。裝置內的感應器和控制器能幫助骨折部位保持於理想的力學狀態，提升骨癒生長，加速骨折癒合。

Promoting Good Health by Research Advances in COVID-19

Two COVID-19 research proposals led by HKUMed scientists have received HK\$110 million from the Research Grants Council's Theme-based Research Scheme (TRS) announced in July 2021.

From the 'new normal' to the 'real normal'

A consortium of multidisciplinary scientists led by **Professor Leo Poon Lit-man** of School of Public Health, HKUMed has received about HK\$62 million in support of their new study of the emerging SARS-CoV-2 variants and immune responses triggered by SARS-CoV-2 infection or vaccination.

The multidisciplinary research team, which also comprises of scientists from The Chinese University of Hong Kong (CUHK) and the Hong Kong University of Science and Technology, will conduct the study 'Virological, immunological and epidemiological characterization of COVID-19' at the end of this year. First, they will monitor and relate genotypic and phenotypic changes in SARS-CoV-2 variants. Secondly, the scientists will study whether COVID-19 vaccination can effectively control SARS-CoV-2 variants. Finally, the research team will track and observe the immune responses of adults and children infected with COVID-19 by natural infection or vaccination in future years.

'It is our long-term goal to provide evidence-based options for the control of COVID-19 by virus characterisation, risk assessment, and the study of immune responses,' said Professor Poon. 'COVID-19

is not going to disappear but our knowledge about it remains very limited. Under such circumstances, the greatest challenge is how to react to the "new surprises" of this new human pathogen in a vigilant manner. I hope our study can ultimately help convert our daily activities from the "new normal" to the "real normal".'

Tracing the Animal Source

Another five-year project 'Ecology, Molecular Virology and Pathogenesis of SARS-CoV-2: From Bedside to Bench and Back' led by **Professor Jin Dong-yan** of School of Biomedical Sciences, HKUMed has received HK\$38 million to support its investigation into the origin of COVID-19 by analysing samples from bats and other animals and locating emerging variants.

The 22-member team with researchers from HKUMed, CUHK and Baptist University of Hong Kong will define the mechanism of asymptomatic SARS-CoV-2 infection in bats and humans by analysing more than 6,000 animal samples from hundreds of species collected over the past two decades. The research team will also attempt to identify the source of the virus and its method of replication, as well as the roles of several components in SARS-CoV-2 biology and pathogenesis using genetic screenings.

While being wary of the challenges of this research project, Professor Jin is determined to push the limits of knowledge about COVID-19 and other emerging infectious diseases in the future. 'Exploring into unknown territory and providing the scientific basis for developing new vaccines and therapeutics is always challenging,' he said. 'But we will build a world-leading group in COVID-19 and CoV research with well-trained researchers of the next generation, who are in a strong position to tackle current and future epidemics and pandemics.'

致力研究 促進健康

根據大學教育資助委員會剛於七月宣布的2021/2022年度主題研究計劃，港大醫學院兩個有關新冠病毒的研究項目獲批超過1億1,000萬港元資助。

從「新常態」回到「真常態」

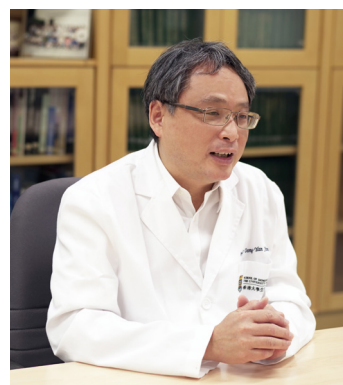
由港大公共衛生學院**潘烈文**教授領導的跨學科研究團隊，獲得教資會接近6,200萬元，以資助其有關新型冠狀病毒（SARS-CoV-2）新興變異株及接種疫苗後所產生免疫反應的研究。

這個跨學科研究團隊也有來自香港中文大學及香港科技大學的科學家，他們將於今年底展開「2019冠狀病毒病的病毒學，免疫學和流行病學特徵」研究計劃。該計劃分三部分：第一步是監測及聯繫SARS-CoV-2變種病毒的基因和表型變化。其次，研究接種疫苗能否有效預防感染新冠病毒的變種。最後，團隊會在未來持續跟進觀察曾感染新冠病毒成年人和兒童的免疫反應，包括由自然感染或接種疫苗所產生的免疫反應。

潘教授分享他領導是項研究計劃的目標和建議時表示：「我們的長遠目標是提供實證，透過歸納病毒特性、風險評估及免疫反應三方面來監控病毒。我們深知新冠病毒不會消失，但目前對其仍然所知有限。因此，現在最大的挑戰是在這新人類病原體面前一直保持警覺。希望我們的研究能最終幫助大家從『新常態』回到『真正的常態』。」



Professor Leo Poon Lit-man 潘烈文教授



Professor Jin Dong-yan 金冬雁教授

追本溯源

另一項為期五年的研究計劃「SARS-CoV-2新型冠狀病毒的生態學、分子病毒學與致病機理：從臨床到實驗再回到臨床」，由港大生物醫學學院**金冬雁**教授領導，獲得共3,800萬港元的資助，透過分析蝙蝠及其他動物的標本來追溯新冠病毒的起源和各種新興變異株。

研究團隊共有22人，分別來自港大醫學院、香港中文大學及香港浸會大學，將分析過去二十多年收集到數百物種的6,000多個動物樣本，旨在闡明新冠病毒在蝙蝠和人類中造成無症狀感染的機制。同時，團隊將會嘗試辨識病毒起源及其複製原理，並透過遺傳學篩選，探討新冠病毒的生物學意義及病理作用。

儘管是項研究充滿挑戰，金教授仍以沉著堅定的態度應對，並決心開拓有關新冠病毒與日後新發傳染病的知識基礎：「探索未知的領域，為發展新疫苗及治療方法提供科學基礎，從來也是極具挑戰性的。但無論如何，我們將會建立一支世界級的新冠病毒研究團隊，培訓新一代的研究員，增強我們面對當前及未來各種傳染病大流行的實力。」

Challenging the Pandemic with The Trinity Challenge

未雨綢繆迎戰全球大流行



As many of us are getting used to living with the SARS-CoV-2 virus by wearing a mask wherever we go, a global consortium of scientists, **Professor Gabriel Leung** (Dean, HKUMed) being one of them, is developing a trailblazing solution for simple, affordable and scalable early detection of novel infectious diseases using data and analytics, which has received the second prize at The Trinity Challenge in late June.

Led by **Professor Carola-Bibiane Schönlieb** of the Department of Applied Mathematics and Theoretical Physics, University of Cambridge, the consortium BloodCounts! seeks to use data from routine blood tests, with over 3.6 billion performed worldwide every year, in developing a broad disease surveillance network with no new equipment or procedures. This innovation, developed by **Dr Michael Roberts** and **Dr Nicholas Gleadall** from the Department of Haematology, University of Cambridge and NHS Blood and Transplant in the United Kingdom, can be easily applied to scan abnormal changes in the blood cells of large populations, almost anytime, anywhere. By observing changes in the blood measurements associated with infection, medical professionals and public health agencies can be alerted to potential outbreaks and take prompt action accordingly.

‘Using the most readily available full blood data to detect potential infection outbreaks is highly desirable because it is convenient and efficient in terms of time, manpower and resources. I look forward to working with the BloodCounts! team to roll this out across the globe to better prepare ourselves for tackling any novel infectious disease in the future,’ said Professor Leung.

Comprised of members from Belgium, The Gambia, Ghana, Japan, Kenya, Hong Kong, India, the Netherlands, Singapore, South Africa, the UK and the United States, and now with the support from The Trinity Challenge, BloodCounts! is set to take its solution globally.

HKUMed is proud to be one of the founding members of The Trinity Challenge, a coalition of 42 organisations from the private, public, philanthropic and academic sectors launched in September 2020, working towards protecting the world from future pandemics by using data, analytics and digital tools. For more information, please visit thetrinitychallenge.org.

當我們何時何地也戴著口罩，逐漸適應與新冠病毒共存之際，港大醫學院院長**梁卓偉教授**有份參與的國際科研團隊，正利用數據分析，研發簡單易用、價錢實惠、可大規模應用，並能預早偵測新興傳染病的嶄新方法，並憑此技術於六月下旬榮獲The Trinity Challenge二等獎。

該國際科研團隊名為BloodCounts!，由英國劍橋大學應用數學和理論物理學系 **Carola-Bibiane Schönlieb** 教授領導，旨在利用全球每年進行超過 36 億次的常規血液檢測數據，研發能廣泛監測疾病的網絡，過程毋須動用新型設備或程序。是項創新技術由英國國民保健署血液及移植部門、英國劍橋大學血液科的 **Michael Roberts** 博士和 **Nicholas Gleadall** 博士共同研發而成，可以隨時隨地偵測到大量人口血液細胞之異常變化。透過觀察與傳染病相關的血液指標變化，醫療專業人員和公共衛生機構便可警惕到傳染病大規模爆發的可能，及時採取相應的行動。

梁卓偉教授表示：「只需利用最常見的全血數據，便能未雨綢繆，預測可能出現的大規模感染，省時方便，所需要的人力物力也較少，所以這種偵測方法非常可取。我由衷期待與 BloodCounts! 團隊攜手合作，將這項技術推廣至世界各地，為應付未來或將出現的新興傳染病做好準備。」

BloodCounts! 團隊成員來自比利時、岡比亞、加納、日本、肯尼亞、香港、印度、荷蘭、新加坡、南非、英國和美國。在The Trinity Challenge資金的支持下，他們將在全球各地應用是項技術，解決公共衛生危機。

港大醫學院十分榮幸能成為 The Trinity Challenge 的創始成員之一。The Trinity Challenge於 2020 年 9 月成立，匯聚了公私營行業、慈善和學術界共 42 個組織的人才，致力透過使用數據、分析和網絡工具保障全球健康，避免全球大流行再度發生。如欲獲取更多相關資訊，請瀏覽 thetrinitychallenge.org。

The Cycle from Bench to Bedside and Back

基礎科學與臨床治療的相互循環

‘I am always looking out to see whether our fundamental research findings on disease mechanisms would be useful to develop treatments and by the same token, how human disorders present opportunities to discover fundamental mechanisms in biology’ said **Professor Kathryn Song Eng Cheah**, Jimmy and Emily Tang Professor in Molecular Genetics and Chair Professor of Biochemistry of the School of Biomedical Sciences.

Her achievements have earned her international acclaim as she has just received a prestigious accolade - the British Society for Matrix Biology (BSMB) Medal Lecture Award presented to individuals who have made outstanding contributions to matrix biology and are internationally recognised as leaders in the field. She attributes the honour to the students, postdocs and collaborators with whom she has worked with.

Keeping her mind open is the key to Professor Cheah’s success. ‘Open your mind to things you aren’t looking for. Don’t discard any research findings simply because they don’t fit in what you think the answers should be. Be persistent and brave enough to receive critical feedback - that’s how we all learn.’

Professor Cheah plans to describe her groups’ latest exciting research findings at the BSMB Spring Conference in 2022: ‘We have discovered how an extracellular matrix degrading enzyme, MMP14, acts as a key regulator of the parathyroid hormone (PTH) signaling pathway in bone cells to moderate bone synthesis.’ she said.

Since PTH is one of the few FDA approved drugs for osteoporosis, but has many side-effects because it affects whole body physiology, the discovery bears significant implications for future development of improved treatments of bone wasting diseases such as osteoporosis.

Professor Cheah’s journey as a molecular geneticist at HKU dated back to 1983, after her early career as postdoctoral researcher in London. She was Head of the Department of Biochemistry for 12 years from 1997 and Director of the Centre for Reproduction, Development and Growth at HKUMed in 2004-2009. She was elected Fellow of The World Academy of Science in 2013.

「我一直在思考我們對於疾病機制的基礎研究結果，能否用於開發未來治病的新方案？而人類的疾病，又能否為生物基本機制的新發現帶來何種啓示？」港大醫學院鄧鉅明伉儷基金教授（分子遺傳學）及生物化學講座教授謝賞恩教授說。



謝教授為科研付出的努力與成就贏得國際肯定，她最近獲英國基質生物學協會（British Society for Matrix Biology, 簡稱BSMB）頒發年度演講獎，嘉許她對基質生物學的傑出成就與偉大貢獻，並彰顯她在國際相關領域的領導地位。她將這榮譽歸功於與她一起工作的學生、博士後研究員和合作者。

對謝教授來說，保持開放的態度是成功的關鍵，「別因研究結果不如預期而放棄。若你能繼續堅持下去，勇敢地接受批評，這些看似失敗的經歷和發現，會令你得到重大啓發。」

謝教授將為BSMB 2022年度春季會議發表演講，除回顧過往的研究歷程，還會分享她和團隊的最新發現：「我打算講述細胞外基質降解酶——MMP14如何在骨骼細胞中充當甲状旁腺激素（PTH）信號轉導通路的關鍵調節酶，從而影響骨骼的形成。」

PTH是少數獲美國食品藥物管理局批准用於骨質疏鬆症的藥物之一，但它對基體生理學的影響帶來不少副作用，此研究對於未來改善骨質疏鬆症等疾病的治療方案具有重大意義。

謝教授早年在倫敦擔任博士後研究員，1983年加入港大，服務至今。自1997年起，擔任生物化學系系主任達12年，並於2004-2009年擔任港大醫學院生殖、發育和生長中心主任，於2013年獲當選世界科學院院士。

Teaching With Simulation

The advent of new technologies coupled with the social restrictions imposed under COVID-19 have given fresh impetus to the School of Nursing's innovations in teaching.

Long before 2020, the School had introduced simulation technologies, including high-fidelity simulation teaching, immersive virtual reality (VR) and use of robots for education, to allow students to practise their clinical reasoning skills, problem-solving skills and expose them to a range of case scenarios beyond what they could encounter through bedside learning. With the pandemic, the School adapted these into the Virtual Simulation (VSim) Education Programme that was launched last April and recently won the University's Teaching Innovation Award. The programme means students are provided seamless clinical learning opportunities even when they cannot see patients face-to-face.

'Although simulation education cannot completely replace the value of practicum and internship practice in hospital wards, it nonetheless provides a 100 per cent safe platform for nursing students to learn nursing procedures and develop their professional skills. They can also be exposed to many more patients than they would see in wards,' said **Dr Janet Wong Yuen-ha**, Director of the Bachelor of Nursing programme and Associate Professor of School of Nursing, HKUMed.



Student interacts with a robot during simulation class

'The important thing is that we not only have the hardware simulator, we have also developed our own software that is even more crucial to student learning, such as tailored scenarios with specific learning outcomes and structured debriefing sessions for feedback.'

Examples of that software include more than 100 clinical case scenarios such as patients with shortness of breath, heart attack and epilepsy, installed in six stimulators with pre-set vital signs and condition changes, an immersive VR developed with Department of Industrial and Manufacturing

Systems Engineering, Faculty of Engineering, HKU that let students see and hear the world through the lens of patients with psychosis or depression, and a robot with chatbot technology to help develop students' communication and questioning skills.

The VSim programme is targeted at students in Years 2-5 who enter the VSim interface via their home computers, where they are presented with different clinical scenarios and have to make decisions in nursing care. The system automatically gives students scores for their online decisions, then teachers follow up in structured debriefing to identify mistakes and areas of improvement.

'The School's teaching is based on the concept of problem-based learning, so we simulate scenarios in wards. Students have to decide which parts of the body should be assessed, which apparatus to use, whether oxygen should be delivered, whether the patient's position should be adjusted, and so on. They learn how to assess patient conditions and give a provisional nursing diagnosis and a nursing care plan for follow-up,' Dr Wong said.

The VSim programme is well received among Nursing students, who find it constructive to their learning. They also report significant improvement in clinical competence, satisfaction and self-confidence, although communication and critical thinking elements fell short in the virtual environment. According to a survey conducted by the School of Nursing, students were satisfied with simulation education, with an average rating of 5.36 (on a 1-7 point scale).



Students experiencing the world of patients with mental illnesses through immersive VR technology.

A final-year student **Chan Yat-wah** recalled the dire situation of handling a patient suffering from oxygen desaturation due to swallowing problems during his geriatric internship. 'Thanks to the simulation classes, in which I had handled similar cases prior to the internship, I was able to stay calm and helped the patient with proficient skills,' said Yat-wah.

In addition to teaching, VSim has even been adapted for clinical assessment of final-year Nursing students by adding a self-reflection component. Last year this was used to assess 188 students, who completed four case scenarios over two days and were guided in debriefing sessions to defuse their emotions and difficulties encountered, reflect on and identify the rationale behind their decisions, and consider how to apply their new learning in practice.

Dr Wong added: 'VSim plus online structured feedback can be an effective alternative modality for clinical training when traditional face-to-face teaching is not available. It should also be part of a system that gives students a variety of learning opportunities to build their competence.'



Dr Janet Wong Yuen-ha 黃婉霞博士 (left) and final year student Chan Yat-wah 陳逸祥

創新虛擬實境教學

護理學院運用虛擬實境科技， 在疫情下為教學注入全新動力。

早在2020年前，護理學院已引入仿真度高的模擬教學及虛擬實境 (Immersive virtual reality, VR) 技術，輔以機械人教學，讓學生接觸到比實習時所見更多的醫療情境，藉此訓練其臨床推理及解決問題的能力。後因疫情影響，不少面授課堂改為網上授課，護理學院遂將上述教學元素於2020年4月起引入虛擬學習平台「VSim」，即使學生無法親身接觸患者，亦可獲得猶如親歷其境的臨床學習機會，此教學法更獲香港大學頒發創新教學獎。

港大醫學院護理學院副教授及護理學學士(全日制)課程總監黃婉霞博士表示：「雖然虛擬學習不能完全取代在病房進行課程實習和短期全職實習的體驗，但無疑為護理學生提供了一個百分百安全的平台。學生不僅學習到各項護理程序及專業技能，更認識到不同的病例，甚至比在病房實習可遇見的病例種類還要多。」

黃博士補充：「從學習層面來說，我們不但擁有虛擬教學的硬件，更為學生度身訂造了一套教學軟件，包括專為達致不同學習目標而設的虛擬情境，透過師生對課堂表現的檢討和回饋，以確定學生確實吸收到教案所設定的學習目標。」

護理學院所引進的虛擬實境技術，是與香港大學工程學院工業及製造系統工程系共同研發的成果。這項技術能讓學生從抑鬱症或精神病患者的視角，體會患者的感官世界。學院也引入了六個機械人作為「模擬病人」，各具預設的生命表徵及病情變化功能，可模擬超過100個臨床病例情境，例如呼吸急促、心臟病發和癲癇症發作等，其中一個機械人更具備聊天功能，協助培訓學生的溝通與提問技巧。

現時的VSim學習系統專為二至五年級學生而設，他們在家中以電腦登入VSim介面後，即可因應屏幕顯示的模擬臨床情境作出護理決定。系統會自動根據這些決定評分，由教師在檢討會議上跟進，指出失誤的地方，並提出建議。

黃博士表示：「學院採用『問題導向學習』教學，透過虛擬臨床場景，指導學生根據不同情況，決定需要檢查患者哪些身體部位、使用何種儀器、應否為患者提供氧氣，以及如何調整患者的姿勢等。學生不但學習到如何評估患者病情的輕重，更學會作出臨時護理診斷及制訂後續護理方案。」

護理學生對VSim學習系統頗有好評，認為對學習助益甚大。縱使虛擬環境對培養學生的溝通和批判思考仍有一定限制，此教學法仍有助提升他們的臨床技能、滿意度和自信心。根據護理學院的調查發現，學生對虛擬實境教學的平均評價為5.36 (1-7分為限)，可見他們普遍感到滿意。

護理學系五年級學生陳逸樺指出，在老人科實習時曾遇上病人因進食時倒噎而引致血液含氧量下降，情況相當危急。陳同學表示：「猶幸實習前上過模擬實境課，曾親手處理類似案例，一旦遇上真實情況就可保持冷靜，並以較純熟的技巧幫助病人。」

除教學用途外，VSim現已成為護理學系五年級學生畢業前的臨床考核工具，並增添了讓學生可自我檢討及反思的元素，以便檢視學習歷程與成果。自2020年開始，學院利用此系統考核了 188 名學生，他們需在兩天內完成四個病例情境，並透過事後檢討會議，指出過程中遇到的困難、分享處理個案時的感受、解釋所作決定背後的原因，以及思考如何妥善運用新學的護理知識與技能等。

黃博士續稱：「當我們無法進行傳統面授教學時，VSim加上學習後的網上檢討會便成為臨床培訓有效的替代方案。虛擬教學亦應成為整個護理教學系統的一部分，為學生提供更多元的學習機會，幫助他們建立扎實的護理能力及靈活的應變技巧。」

Advancing Family Medicine in the Greater Bay Area

The discipline of Family Medicine (FM) has been progressing in leaps and bounds in the Greater Bay Area and Mainland China, with HKUMed playing a leading role in its development.



Professor Cindy Lam Lo-kuen 林露娟教授



Dr William Wong Chi-wai 黃志威醫生

Family Medicine was the first HKUMed department to open a clinic at the HKU-Shenzhen Hospital (HKU-SZH) in July 2012, where it introduced an outpatient model offering a packaged fee for consultations that aimed to reduce unnecessary investigations, treatments and secondary specialist referrals. It also prohibited the practice of giving intravenous drugs at outpatient settings, which is rarely medically indicated and can lead to serious side effects.

‘We were the first in the Greater Bay Area and first in the country to execute a “whole-person care” medical service and

package fee,’ said the Head of Family Medicine at HKUMed, **Professor Cindy Lam Lo-kuen**. ‘Our aim has always been to set the standard for Family Medicine in the region, so we are also pleased that the practice of curtailing intravenous treatments for outpatients has been recommended to be phased out at both the national and provincial levels.’

Since that auspicious start, the HKU-SZH FM Clinic has expanded its services to include clinical psychology, early pregnancy assessment, post-natal shared care, adult vaccination as well as integrative chronic disease management that provides personalised care and comprehensive management for patients with multi-morbidity. It has also played a significant leading role in training the next generation of family doctors and health professionals.



Members of Department of General Practice at HKU-SZH
港大深圳醫院全科醫學部團隊

Under the leadership of **Dr William Wong Chi-wai**, Clinical Associate Professor at HKUMed and Chief-of-Service of HKU-SZH Department of General Practice (2018-21), the hospital was designated by Guangdong's Health Commission as the Provincial Train-the-Trainer Centre for General Practitioners (GPs) in 2019. This is the only province-level training centre of its kind in Shenzhen and is authorised to issue trainer licences and certificates. More than 250 trainers had attended the centre's courses with high satisfaction as of April 2021.

The department also trains residents, typically those undergoing three years' residency training in the hospital and community health centres. Last November the HKU-SZH was designated a Key Professional Base for Structured Residency Training to recognise its high standard and achievement since the hospital started its residency programme in 2018. It is now ranked among the top 10 General Practice residency training centres in the country and second in Guangdong province.

The high standards and care model of the HKU-SZH FM Clinic has allowed it to make a special contribution during the COVID-19 pandemic. Its adult vaccine clinic is one of only two approved by the Shenzhen Municipal Health Commission, vaccinating 300-400 people per

day in its clinic and thousands out in the community, making it a model for promoting disease prevention as a critical component of healthcare in Shenzhen and the country. Dr Wong said, 'Not only have we contributed to COVID-19 testing in the hospital, but also we surveyed GPs in Shenzhen on how they could help to further control the pandemic and are participating in an international consortium of over 72 million primary care patients in nine different countries to capture the effects of the global pandemic on patient care. We are also building an early warning system utilising big data and machine learning technology with the Chinese Academy of Sciences to identify novel or common infectious disease outbreaks through primary care.'

Looking ahead, Professor Lam said they hoped to build on their success in both clinical services and research. Currently, the clinic has 17 full-time doctors providing more than 100,000 consultations per year. 'Our goal is to build a new and efficient system for the management of chronic diseases, to enable our doctors to carry out and publish on primary care research, and to promote public awareness of infectious disease and mental health, which is essential to safeguarding the health of people in the region,' she said.

香港大學深圳醫院 致力推動大灣區的家庭醫學發展

大灣區以至內地的家庭醫學專業 發展可謂一日千里，港大醫學院 更是當中的領導者。

家庭醫學及基層醫療學系是港大醫學院首個在港大深圳醫院落戶的學系，在2012年7月開設家庭醫學全科門診中心，率先以「套餐」模式收費，省卻不必要的檢查、治療和專科轉介。此外，全科門診中心更打破常規，不為病人進行靜脈注射。因為門診需要這種治療方式極為罕見，並可以導致嚴重副作用。

醫學院家庭醫學及基層醫療學系系主任**林露娟教授**表示：「港大深圳醫院的全科門診中心在大灣區以至全國率先推出『全人健康照顧』概念和『套餐』收費模式，為區內的家庭醫療服務訂立新標準。我們也樂於看見靜脈注射在國家級及省級醫院的門診逐步停用。」

全科門診中心有了一個好開端，接著便拓展服務，相繼推出臨床心理治療、早期懷孕評估、產後共同護理、成人疫苗接種和綜合慢性疾病管理等，提供個人化治療，全面照顧多重疾病的患者。全科門診中心除了提供診療服務之外，在培訓新一代的家庭醫生和醫療專業人員方面，也擔當很重要的領導角色。

在港大醫學院家庭醫學及基層醫療學系臨床副教授、港大深圳醫院全科主管(2018-21)**黃志威醫生**的帶領下，港大深圳醫院全科醫學部於2019年被廣東省衛生健康委員會指定為在深圳唯一的省級全科醫生骨幹師資培訓基地，獲准頒發普通和骨幹教師帶教證。截至2021年4月，超過250名醫生完成課程並取得優異成績。

全科醫學部同時也培訓住院醫生，受訓的醫生需要在醫院及社區健康中心接受總共為期三年的培訓。課程自2018年開設以來，以其優異成績和傑出成就，在去年11月獲得廣東省衛生健康委員會認可為住院醫師規範化培訓重點專業基地，短短兩年間，在全國的全科醫學培訓基地中，排名前十名之內，在廣東省排名第二。

在新冠病毒流行期間，港大深圳醫院的家庭醫學全科門診中心以其高水平的醫療服務和護理模式作出了重要貢獻。全科門診中心的成人疫苗診所是深圳市衛生健康委員會兩個認可的接種中心之一，門診中心每天為300至400人、而在社區裡為數千人接種新冠疫苗，堪稱是深圳以至全國在推廣疾病防護和保障人民健康的典範。黃志威醫生說：「我們除了在醫院幫忙提供新冠病毒測試、評估全科醫生如何在深圳進一步控制疾病大流行之外，更參與國際性聯盟，探討疫情為來自九個國家共7,200萬名基層醫療病人在護理方面帶來哪些影響。部門與中科院合作利用大數據和人工智能技術建立早期警報系統，希望在提供基層醫療服務時，盡早偵測新型或常見傳染疾病出現大爆發的可能性。」

展望將來，林露娟教授希望能夠結合臨床和科研的力量，繼續提升港大深圳醫院的全科醫療服務水平。現時中心共有17名全職醫生，每年診症超過10萬宗。她說：「全科醫學部的目標，是建立嶄新及高效的慢性疾病管理系統、協助醫生進行科研和發表學術論文，以及提高大眾對傳染疾病及精神健康的關注，因為這兩者對於保護區內人民的健康至為重要。」



Honours and Awards

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International

Four HKUMed Scholars Among World's Most Highly Cited in 2020

- **Professor Guan Yi** (管軼), Daniel CK Yu Professor in Virology, Professor and Chair of Emerging Viral Diseases, School of Public Health, in the cross-field category.
- **Professor Yuen Kwok-yung** (袁國勇), Henry Fok Professor in Infectious Diseases, Clinical Professor and Chair of Infectious Diseases, Department of Microbiology, in the cross-field category.
- **Professor Malik Peiris** (裴偉士), Tam Wah-Ching Professor in Medical Science, Clinical Professor and Chair of Virology, School of Public Health, in the microbiology category.
- **Professor Leo Poon Lit-man** (潘烈文), School of Public Health, in the microbiology category.

Over 50 HKUMed researchers ranked within the top 1% by citations according to the Clarivate Web of Science.

Professor Gabriel Leung (梁卓偉)
(Dean, HKUMed) Joins Wellcome's
Board of Governors

Dr Wendy Lam (藍詠德) (School of Public Health) Appointed Vice-President of International Psycho-Oncology Society (IPOS)

National

Professor Paul Tam (譚廣亨) and
Dr Clara Tang (鄧詩敏) (Department of Surgery)
Receive Second Class Award of the
2020 China Medical Science
& Technology Awards

Local

Two HKUMed Scholars Receive Foundation Fellowship Awards

- **Professor Huang Jiandong** (黃建東), L & T Charitable Foundation Professor in Biomedical Sciences, Professor and Chair of Synthetic Biology, School of Biomedical Sciences, received the Croucher Senior Research Fellowship and
- **Professor Richard Yuen Man-fung** (袁孟峰), Li Shu Fan Medical Foundation Professor in Medicine, Clinical Professor and Deputy Head, Department of Medicine, received the Croucher Senior Medical Research Fellowship.

Professor Benjamin Cowling (高本恩)
Conferred as RGC's Inaugural Senior
Research Fellow

Dr Pamela Lee Pui-wah (李珮華),
(Assistant Dean, HKUMed) was awarded
Rosie Young 90 Medal for
Outstanding Young Woman Scholar

**HKUMed Receives Funding from
the One-off Collaborative Research Fund
COVID-19 and Novel Infectious Diseases
Research Exercises**

- 'Mechanism of immune control against COVID-19', led by **Professor Chen Zhiwei** (陳志偉) of the Department of Microbiology and Director of AIDS Institute;
- 'A multinational big data COVID-19 Epidemiological Study on post-infection Outcomes (ACESO)', led by **Professor Ian Wong Chi-kei** (黃志基), Lo Shiu Kwan Kan Po Ling Professor in Pharmacy, Head of Department of Pharmacology and Pharmacy;

- ‘Comparison of paediatric and adult responses to coronavirus infection - a molecular, cellular and tissue study’, led by **Professor Paul Tam Kwong-hang** (譚廣亨), Li Shu-Pui Professor in Surgery, Chair of Paediatric Surgery, Department of Surgery;
- ‘Mechanism of inflammasome activation by SARS-CoV-2’, led by **Professor Jin Dong-yan** (金冬雁), Clara and Lawrence Fok Professor in Precision Medicine, Professor of the School of Biomedical Sciences;
- ‘Superspreading of COVID19: epidemiology and control’, led by **Professor Benjamin Cowling** of the School of Public Health;
- ‘Role of pangolins in the emergence of SARS-CoV-2 and other viruses in humans’, led by **Dr Lam Tsan-yuk** (林贊育), Assistant Professor of the School of Public Health;
- ‘Impact of COVID-19 pandemic on Hong Kong children and support to families during crisis’, led by **Dr Patrick Ip** (葉柏強), Clinical Associate Professor of the Department of Paediatrics & Adolescent Medicine;
- ‘Replication-defective SARS-CoV-2 mutant vaccines with abnormal codon usage patterns’, led by **Professor Leo Poon Lit-man** (潘烈文) of the School of Public Health.

HKUMed Scholars Granted Collaborative Research Fund and Research Impact Fund 2020/21

- “Mechanism of immune control against COVID-19”, led by **Dr Parco Siu Ming-fai** (蕭明輝), Associate Professor of the School of Public Health, and
- “Development and applications of a driver-dependent tumor organoid biobank for translational liver cancer research”, led by **Dr Stephanie Ma Kwai-yee** (馬桂宜), Associate Professor of the School of Biomedical Sciences.

Dr Janice M Johnston (莊臻寧)
(School of Public Health) Receives University Distinguished Teaching Award 2020 and Faculty Teaching Medal 2020

Recipients of HKU Excellence Awards for 2020

- **Dr Edmond Choi Pui-hang** (蔡沛恒), Assistant Professor of the School of Nursing, was awarded the Early Career Teaching Award.
- **Dr Anderson Tsang Chun-On** (曾震安), Clinical Assistant Professor of the Department of Surgery was awarded Teaching Innovation Award for his work: From Bed-side to Web-side: transforming teaching with telemedicine.
- **Dr John Fung Tai-chun** (馮泰俊), Lecturer of the School of Nursing and his team members: **Dr Veronica Lam Suk-fun** (林淑芬), Senior Lecturer, **Ms Michelle Pang Tsz-ha** (彭紫霞), Lecturer and **Dr Janet Wong Yuen-ha** (黃婉霞), Associate Professor, were awarded Teaching Innovation Award for their work: Evaluation on Students’ Clinical Competence after a Virtual Simulation Education Programme during COVID-19 Pandemic.

Winners of the 2020 Faculty Prizes

- **Dr Edmond Choi Pui-hang** (蔡沛恒), Assistant Professor of the School of Nursing;
- **Dr Janice Mary Johnston**, Associate Professor, Deputy Director (Education) and Division Head, Division of Health Economics, Policy and Management of the School of Public Health;
- **Ms Eliza YT Tam** (譚宛婷), Lecturer of the Department of Pharmacology and Pharmacy; and
- **Dr Anderson Tsang Chun-on** (曾震安), Clinical Assistant Professor, Department of Surgery, were awarded the Faculty Teaching Awards (Faculty Teaching Medal).

Faculty Research Output Prize Winners 2019-20

Dr Luo Shan, Post-doctoral Fellow, **Dr Ryan Au Yeung Shiu-lun** (歐陽兆倫), Assistant Professor, **Dr Zhao Jie** (趙潔), Assistant Professor, and **Dr Catherine Mary Schooling** (舒雯), Associate Professor of the School of Public Health.

Other Awards

- **Dr Rita Chang Yuk-kwan** (張玉君), Honorary Clinical Tutor, Department of Surgery, won the Best Presentation Award at the 10th Global Breast Cancer Conference, April 2021.
- **Professor Kenneth Cheung Man-chee** (張文智), Jessie Ho Professor in Spine Surgery, Head and Chair Professor of the Department of Orthopaedics and Traumatology, was awarded 2021 Walter P. Blount Humanitarian Award. He also received approval for the use of a new medical device for correcting severe spinal deformities in children in Greater Bay Area.

Awardees of the 40th Annual Congress by The Hong Kong Orthopaedic Association in 2020

- **Dr Amy Cheung Yim-ling** (張炎鈴), Honorary Tutor and co-authors including **Professor Peter Chiu Kwong-yuen** (曲廣運), Li Shu Fan Medical Foundation Professor in Orthopaedic Surgery; **Dr Steve Cheung Man-hong** (張文康), Clinical Assistant Professor; **Dr Henry Fu Chun-him** (傅俊謙), Honorary Clinical Assistant Professor; **Dr Vincent Chan Wai-kwan** (陳偉鈞), Honorary Clinical Tutor were awarded the Arthur Yau Award for Best Clinical Paper.
- **Dr Prudence Cheung Wing-hang** (張穎恒), Senior Research Assistant and **Dr Jason Cheung Pui-yin** (鍾培言), Clinical Associate Professor received the Best Poster Award.
- **Dr Janus Wong Siu-him** (黃兆謙), Clinical Assistant Professor; and co-authors including **Professor Frankie Leung Ka-li** (梁加利), Tam Sai-Kit Professor in Orthopaedics and Traumatology, Clinical Professor; **Dr Hu Yong** (胡勇), Associate Professor, **Dr Lau Tak-wing** (劉德榮), Honorary Clinical Associate Professor, **Mr Fei Ningbo** (費寧博), PhD student, were awarded The Best Paper Award for Trainee Member.
- **Dr. Janus Wong Siu-him**, was awarded Best Paper in Trauma.

Dr Janus Wong Siu-him, was awarded the 2020 Best Original Research by Trainees - Silver Medal awarded by the Hong Kong Academy of Science

Dr Hu Yong, Associate Professor, Department of Orthopaedics and Traumatology, in collaboration with **Dr Wan Feng** (萬峰), University of Macau won a total of eight awards in the 2020 World Robot Conference Contest (WRCC) BCI Brain-Controlled Robot Contest.

Professor Mary Ip Sau-man (葉秀文), Mok Hing Yiu Professor in Respiratory Medicine, Chair Professor of Respiratory Medicine, Chief of Division of Respiratory Medicine, Department of Medicine, was chosen to be Keynote Lecture Speaker for the 19th Annual Meeting of Taiwan Society of Sleep Medicine in Conjunction with 1st OSAsia. Additionally, she was speaker at the Hong Kong Lung Foundation's Donald Yu Lecture, taking place at the Hong Kong Thoracic Society and CHEST Delegation Hong Kong and Macau Annual Scientific Meeting in March 2021.

Dr Jojo Kwok Yan-yan (郭欣欣), Assistant Professor, and **Dr Heidi Fan Sze-lok** (樊思樂), Research Assistant, School of Nursing, were awarded the Sigma Theta Tau Pi Iota Chapter Scholarship 2020 by The Sigma Theta Tau International Pi Iota Chapter in December 2020.

Professor Lai Ching-lung (黎青龍), Simon K Y Lee Professor in Gastroenterology, Chair of Medicine & Hepatology, Department of Medicine, was appointed the External Examiner for the Third Professional Examination 2020-21 (Part II) at the Faculty of Medicine, The Chinese University of Hong Kong, in April 2021.

Dr Agnes Lai Yuen-kwan (賴婉君), Assistant Professor, School of Nursing, was given the People's Choice e-Poster Award for her poster 'Survey on Advanced Lung Cancer Patients' Physical Activity Preference and Needs' at the 10th Hong Kong International Nursing Forum cum 3rd Sigma Asia Region Conference in December 2020.

Dr Jenny Lam Ka-wing (林嘉穎), Associate Professor, Department of Pharmacology and Pharmacy, received The DDL (Drug Delivery to the Lungs) Emerging Scientist Award from The Aerosol Society in December 2020.

Dr Henry Mak Ka-fung (麥嘉豐), Clinical Associate Professor of the Department of Diagnostic Radiology, was awarded the Best Poster Presentation by Hong Kong College of Radiologists in November 2020.

Dr Loey Mak Lung-yi (麥龍兒), Clinical Assistant Professor, Department of Medicine, won the Young Investigator's Award at the 30th Annual Conference of the Asian Pacific Association for the Study of the Liver (APASL) in February 2021. She won the Distinguished Research Paper Award for Young Investigators 2020 from Hong Kong College of Physicians in September 2020. Additionally, the Croucher Foundation has awarded her a fellowship for 2021/2022.

Dr Ng Ming-yen (黃明燦), Clinical Assistant Professor, Department of Diagnostic Radiology, was selected for the Future Leaders Programme by the Society of Cardiovascular Computed Tomography in March 2021.

Professor Walter Seto Wai-kay (司徒偉基), Clinical Professor, Department of Medicine, was conferred a Fellowship by the American Gastroenterological Association in February 2021.

Dr Kendrick Co Shih (施愷迪), Clinical Assistant Professor, Department of Ophthalmology, received the Academic Development Mentorship Scheme Award from the 2020 Academy of Asia Pacific of Ophthalmology (AAPPO) in December 2020.

Dr Wang Weiping (汪衛平), Assistant Professor, Department of Pharmacology and Pharmacy, received the Thieme Chemistry Journals Award from Thieme Chemistry in January 2021.

Professor Kenneth Wong Kak-yuen (黃格元), Clinical Professor and Chief of Division of Paediatric Surgery, Department of Surgery, received the HKWC and QMH/TYH Outstanding Team Award (Paediatric Thoracoscopic Team) from the Hong Kong West Cluster, Hospital Authority in March 2021.

Mr Henry Yau (游廣智), Managing Director, The University of Hong Kong Clinical Trials Centre (HKU-CTC), was appointed as Chairperson of the International Clinical Trials Center Network (ICN) in September 2020.

Dr Yiu Kai-hang (姚啟恒), Clinical Associate Professor, Department of Medicine, won the Global Quality Improvement Category of 23rd Annual Quality Improvement (QI) Awards 2020 from the Australian Council on Healthcare Standard (ACHS) in December 2020.

Professor Yuen Kwok-yung, Henry Fok Professor in Infectious Diseases, Chair Professor of Infectious Diseases; **Dr Kelvin To Kai-wang** (杜啟泓), Head and Clinical Associate Professor; **Dr Jasper Chan Fuk-woo** (陳福和), Clinical Assistant Professor; **Dr Kok Kin-hang** (郭健恒), Associate Professor (Non-Clinical); **Dr Chu Hin** (朱軒); and **Dr Yuan Shuofeng** (袁碩峰), Assistant Professor, Department of Microbiology, won First Place in the 2020 Best Papers Award from the *Emerging Microbes & Infections* journal in February 2021. Their winning article was entitled 'Genomic characterization of the 2019 novel human-pathogenic coronavirus isolated from a patient with atypical pneumonia after visiting Wuhan'.

Dr Zhou Runhong (周潤宏), Research Officer, AIDS Institute, won the Young Investigator Award from the Hong Kong Society for Immunology in December 2020.



Activities and Events

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Autumn 2020

Summer Programme for Secondary School Students

August 30 - September 2, 2020
School of Nursing



HKU Musculoskeletal Tumour Webinars I & II

September 30, 2020 and January 21, 2021
Department of Orthopaedics
and Traumatology

Public Lecture Series 2020-21

September 2020 to April 2021
The Department of Medicine
(<https://www.youtube.com/channel/UCyuVCCJHPBKkUSH26lkgzoA>)

Endocrinology, Diabetes & Metabolism Hong Kong (EDM HK) 3rd Annual Meeting

October 17 and 28, 2020
Division of Endocrinology and Metabolism
of the University of Hong Kong, KK Leung
Diabetes Centre, and Osteoporosis
Centre of Queen Mary Hospital



The Jockey Club SMART Family-Link Project Revealed the Relationship between Information Sharing and Family Well-being during the COVID-19 Outbreak

October 20, 2020
School of Public Health

HKU-Pasteur Research Pole Turns 20

October 21, 2020
School of Public Health



"Exercise is Medicine" 5K Challenge

October 27, 2020
HKU Stanley Ho Sports Centre Complex
School of Nursing

Virtual Information Day for UG Admissions

October 31, 2020
School of Nursing



The 8th Anniversary of HKU-Shenzhen Hospital and Inaugural Distinguished Lecture

November 6, 2020
HKU-Shenzhen Hospital

Simulation Lecture for Secondary School Students

November 7, 2020
School of Nursing

Walking through a Global Outbreak: A Live Simulation

November 7, 2020
School of Public Health

Support Scheme for Guangdong Residents with Chronic Disease

November 9, 2020
HKU-Shenzhen Hospital



10th Anniversary of the Certificate in Infection Control Course

November 21, 2020
School of Nursing



The 9th Cross Straits Children Oncology Meeting & The 3rd Asian Neuroblastoma Meeting

November 28, 2020
Division of Paediatric Surgery,
Department of Surgery

Hong Kong Immunology Forum 2020

December 5, 2020

AIDS Institute

How to Prevent Getting Lost in Transition: The Way Forward to Optimise Cancer Survivorship Care - Cancer Survivorship Symposium

December 5, 2020

HKU Jockey Club Institute of Cancer Care (JCICC)

U21 Asia Pacific Research Postgraduate Symposium

December 7, 2020

School of Nursing

More than 1,500 Join Virtual International Nursing Forum

December 7 and 8, 2020

The School of Nursing

Spring 2021

PRACTISE IIS: Training Course on Ethics, Regulatory and Legal Compliance

January 14, 2021

Clinical Trials Centre (HKU-CTC)

The First virtual Hong Kong Surgical Forum (HKSF)

January 15, 2021 Department of Surgery

Urban Climb 300M+

January 16, 2021/ Nina Tower, Tsuen Wan

Department of Orthopaedics and Traumatology



26th Medical Research Conference (MRC)

January 16, 2021

Department of Medicine

The Hong Kong Pathology Forum 2021

January 30, 2021

Department of Pathology

“HKU Department of Orthopaedics and Traumatology – 60th Anniversary Series” with RTHK on Healthpedia

From February to April 2021

Broadcasted live on RTHK 31 and RTHK

Radio 1 every Wednesday

Department of Orthopaedics and Traumatology

Symposium on Paediatric Hepato-Renal Diseases

February 20, 2021

Division of Paediatric Surgery, HKUMed and the Division of Paediatric Nephrology, Hong Kong Children's Hospital

February Events at HKU-SZH: 14th International Rare Disease Public Welfare Activity and the Opening Ceremony of the Shenzhen Municipal Key Clinical Specialty of ‘Osteogenesis Imperfecta’

February 25, 2021

HKU-Shenzhen Hospital

Commencement of the Phase 1 Clinical Trial of VectorFlu™ ONE, COVID-19 nasal vaccine

March 2021

HKU Phase 1 Clinical Trials Centre Clinical Trials Centre (HKU-CTC)

Global Health and Development Student Webinar Series: 2021 Myanmar Coup d'état – Impacts on the Country's Healthcare and COVID-19 Response

March 3, 2021

School of Public Health

15th International Virtual Symposium on Healthy Aging ‘Towards Enduring Youth’

March 13 and 14, 2021

Research Centre of Heart, Brain, Hormone and Healthy Aging



Extensive Achievements at HKU-SZH, According to The Second Organization-Wide Survey Conducted under the Second Australian Council on Healthcare Standards (ACHS)

March 15 - 19, 2021

HKU-Shenzhen Hospital

Visit of the Vice-President and Pro-Vice-Chancellor (Research)

March 19, 2021

HKUMed campus

Research Team, HKUMed



Connecting HKUMed Community with Happiness

March 20, 2021
HKUMed campus



School of Nursing Ranked 3rd in Asia by QS Universities; MScs in Nursing 2021/22 Approved by the University and the Nursing Council of Hong Kong
School of Nursing

II Supreme – A One-Stop Online Platform for Investigator-Initiated Clinical Studies

Second Quarter of 2021
Clinical Trials Centre (HKU-CTC)

LevelMind@JC Official Launch

April 1, 2021
Department of Psychiatry



Vaccinating Against COVID-19 at HKU-SZH

April 13, 2021
HKU-Shenzhen Hospital

24th East Asia Forum of Nursing Scholars (EAFONS) Conference

April 15 and 16, 2021
School of Nursing

Talk on Knowledge Exchange and Student Knowledge Exchange Competition

April 16, 2021
School of Public Health



New Pharmaceutical Product and Medical Devices

April 16, 2021
HKU-Shenzhen Hospital



The State Key Laboratory of Liver Research (SKLLR) Virtual Seminar 2021

April 17, 2021
Department of Pathology

HKU Teaching & Learning Festival 2021 – TDG Workshop: Walkthrough the Simulation Ward Activity

April 21, 2021
School of Nursing

10th Anniversary: Annual Pharmacy Education Symposium – Celebrating a Decade of Success

April 23, 2021
Mandarin Oriental Hong Kong
Department of Pharmacology and Pharmacy



Second Phase of HKU-SZH Construction

May 8, 2021
HKU-Shenzhen Hospital

The Shaw Prize Lecture on Life Science and Medicine 2020

21 May 2021
Research Centre of Heart, Brain, Hormone and Healthy Aging



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Head, Department of Ophthalmology



Professor Christopher Leung Kai-shun (梁啟信)

Professor Christopher Leung Kai-shun (梁啟信) joined HKUMed as Clinical Professor and was appointed the Head of the Department of Ophthalmology in May 2021. Professor Leung completed his medical training and doctoral education (MBChB and MD) at The Chinese University of Hong Kong (CUHK) and obtained his master's degree of science in Molecular Medicine at Imperial College London. With the support of a Croucher Foundation Fellowship, he served as a Clinical and Research Fellow at the Hamilton Glaucoma Centre at The University of California, San Diego for 18 months during his tenure at CUHK's Department of Ophthalmology & Visual Sciences. He has held several administrative leadership roles while at CUMedicine, including as Assistant Dean (Development), Director of the CUHK Ophthalmic Research Centre and Head of Graduate Division of Ophthalmology. He has received more than 25 regional and international awards in research and professional services including the Schanzlin Research Award (USA), ARVO Clinician Scientist Award, and most recently the Hong Kong Most Outstanding Leaders Award. Professor Leung has also founded two start-up companies to translate patented vision diagnostic technologies into clinical applications.

Head, Department of Paediatrics and Adolescent Medicine



Professor Leung Wing-hang (梁永恆)

Professor Leung Wing-hang (梁永恆) joined HKUMed as Clinical Professor in Paediatrics and Adolescent Medicine in November 2020 and was appointed Head of the Department of Paediatrics and Adolescent Medicine in February 2021. He obtained his bachelor's degree from HKUMed and doctoral degree from the Johns Hopkins University. He was certified in General Paediatrics and in Paediatric Hematology-Oncology by the American Board of Paediatrics. His research work focuses on the biology of human natural killer cells and memory T cells, specifically the clinical applications in hematopoietic cell transplantation and cellular therapy for cancers, infectious diseases, inborn errors, and immune disorders. He is an elected Member of the American Society for Clinical Investigation.

Department of Ophthalmology
Clinical Assistant Professor



Dr Sharon Chow She-wan
(鄒樞韻) joined the Department of Ophthalmology as Clinical Assistant Professor in November 2020.

Department of Microbiology
Clinical Assistant Professor



Dr Li Xin (李欣) joined the Department of Microbiology as Clinical Assistant Professor in April 2021.

School of Biomedical Sciences
Assistant Professor



Dr Rubén Hervás Millán
joined the School of Biomedical Sciences as Assistant Professor in March 2021.

School of Biomedical Sciences
Assistant Professor



Dr He Mu (何睦) joined the School of Biomedical Sciences as Assistant Professor in January 2021.

Department of Psychiatry
Clinical Associate Professor



Dr Simon Lui Sai-yu (呂世裕) joined the Department of Psychiatry as Clinical Associate Professor in October 2020.

School of Biomedical Sciences
Assistant Professor



Dr Rio Ryohichi Sugimura
(杉村竜一) joined the School of Biomedical Sciences as Assistant Professor in December 2020.

Department of Orthopaedics and Traumatology
Clinical Associate Professor of Practice



Dr Lam Chor-yin (林楚賢) joined the Department of Orthopaedics and Traumatology as Clinical Associate Professor of Practice in January 2021.

Department of Medicine
Clinical Assistant Professor



Dr David Lui Tak-wai (呂德威) joined the Department of Medicine as Clinical Assistant Professor in March 2021.

BIMHSE
Associate Professor



Dr Zheng Binbin (鄭彬彬) joined the Bau Institute of Medical and Health Sciences Education as Associate Professor in April 2021.

Appointments and Promotions



Dr Karen Chan Kar-loen (陳嘉倫), Clinical Associate Professor of the Department of Obstetrics and Gynaecology, has been appointed Department Head.



Dr Chen Haiyong (陳海勇), previously Research Assistant Professor of the School of Chinese Medicine, has been appointed Assistant Professor.



Dr Elaine Lee Yuen-phin (李燕蘋), previously Clinical Assistant Professor of the Department of Diagnostic Radiology, has been appointed Interim Department Head and Clinical Associate Professor.



Dr Cheung Ching-lung (張正龍), previously Assistant Professor of the Department of Pharmacology and Pharmacy, has been appointed Associate Professor.



Professor Feng Yibin (馮奕斌), previously Associate Professor of the School of Chinese Medicine, has been appointed Professor.



Dr Chu Hin (朱軒), previously Research Assistant Professor of the Department of Microbiology, has been appointed Assistant Professor.



Professor Walter Seto Wai-kay (司徒偉基), previously Clinical Associate Professor of the Department of Medicine, has been appointed Clinical Professor.



Dr Celine Chui Sze-ling (徐詩鈴), Previously Research Assistant Professor of Department of Pharmacology and Pharmacy, Department of Paediatrics and Adolescent Medicine and Department of Social Work and Social Administration, has been appointed Assistant Professor of the School of Nursing and School of Public Health.



Professor Kenneth Wong Kak-yuen (黃格元), previously Clinical Associate Professor of the Department of Surgery, has been appointed Clinical Professor.



Dr Sophie Alessandra Valkenburg Doak, previously Research Assistant Professor of the School of Public Health, has been appointed Assistant Professor.



Dr Lam Ka-on (林嘉安), previously Clinical Assistant Professor of the Department of Clinical Oncology, has been appointed Clinical Associate Professor of Practice.



Dr Aya El Helali, previously Postdoctoral Fellow of the Department of Pathology, has been appointed Clinical Assistant Professor of the Department of Clinical Oncology.



Dr Rex Lam Pui-kin (林沛堅), previously Clinical Assistant Professor of Practice of the Emergency Medicine Unit, has been appointed Clinical Associate Professor of Practice.



Dr Christian Fang Xinshuo (方欣碩), previously Clinical Assistant Professor of Practice of the Department of Orthopaedics and Traumatology, has been appointed Clinical Associate Professor of Practice.



Dr Clara Tang Sze-man (鄧詩敏), previously Research Assistant Professor of the Department of Surgery, has been appointed Assistant Professor.



Dr Fraide A. Ganotice, Jr, previously Senior Lecturer of Bau Institute of Medical and Health Sciences Education, has been appointed Assistant Professor.



Dr Yuan Shuofeng (袁碩峰), previously Research Assistant Professor of the Department of Microbiology, has been appointed Assistant Professor.



Dr Christy Hui Lai-ming (許麗明), previously Assistant Professor of the Department of Psychiatry, has been appointed Associate Professor.

People

Goodbye

We would like to express our gratitude and best wishes to the following staff members who have left the Faculty:

Professor Khong Pek-Lan (孔碧蘭),
and **Dr Chan Tao** (陳濤),
Department of Diagnostic Radiology

Dr Hugo Cogo-Moreira,
School of Public Health

Professor Patrick Woo Chiu-yat (胡釗逸),
Department of Microbiology

Dr Xia Zhengyuan (夏正遠),
Department of Anaesthesiology

Dr Yan Chun-hoi (忻振凱),
Department of Orthopaedics and Traumatology

Retirement

The Faculty would like to thank the following staff members for their dedication, service and contributions to the Faculty. We wish them all the best for their future endeavours:

Professor James Chim Chor-sang (詹楚生)

Professor Jimmy Lai Shiu-ming (黎少明)

In Remembrance

Dr Edwin Hui Chi-wai (許志偉)

It is with profound sorrow that HKUMed reports the death of **Dr Edwin Hui Chi-wai** (許志偉). Dr Hui was a distinguished faculty member, visionary, devoted teacher and globally recognised expert in his field. He passed away in Vancouver on November 17, 2020. Dr Hui was Director of the Medical Ethics Unit of the Faculty from 2005 to 2011 and a Clinical Professor and Clinical Associate Professor of the Faculty from 2006 to 2011. With profound enthusiasm, Dr Hui developed the medical ethics course for MBBS and actively participated in the teaching of this important discipline in HKUMed. Dr Hui was also involved in the Hospital Authority as a consultant in Clinical Ethics. His contributions to medical ethics education will remain invaluable inspirations to many of us.

Professor Kennedy Francis Shortridge (邵力殊)

It is with deep sadness that HKUMed and The University of Hong Kong report the death of Emeritus **Professor Kennedy Francis Shortridge** (邵力殊). Professor Shortridge was a renowned researcher on influenza ecology. He generated the hypothesis in 1982 that southern China is an epicentre for the emergence of pandemic influenza viruses and the consolidated hypothesis that pandemic influenza is a zoonosis and made significant contributions to the medical community with his crucial work on early detection of the H5N1 “bird flu” outbreak in 1997. For this work he earned the Prince Mahidol Award in Public Health in 1999. He was also an Honorary Rotarian and Paul Harris Fellow.

Professor Shortridge obtained his Bachelor of Science (Microbiology) from the University of Queensland in 1962 and his PhD (Virology) from the University of London, University College Hospital Medical School in 1971. He then joined the Department of Microbiology, The University of Hong Kong, as Senior Lecturer in June 1972, was promoted to Reader in February 1976, and then became the Chair Professor in March 1981. He was conferred the title of Emeritus Professor after his retirement in 2002.

Professor Shortridge will be dearly missed and remembered as an outstanding teacher and a knowledgeable scholar. We extend our deepest condolences to Professor Shortridge's family.

Professor Kieran Singer (施應嘉)

We are saddened by the passing of **Professor Kieran Singer (施應嘉)** on January 22, 2021. Professor Singer graduated from the Faculty of Medicine, The University of Hong Kong (HKU) in 1953 and was appointed as Chair Professor of the Department of Psychiatry, HKU, in 1972 after he left Castle Peak Hospital. While he worked in Castle Peak Hospital, he was amongst the earliest psychiatrists in Hong Kong to adopt the clinical supervision and training system of the Royal College of Psychiatrists, with up-to-date psychiatric treatments and a holistic approach in the care provided to the patients. Professor Singer also served as Consultant and Head of the Government Psychiatric Services. He will always be remembered for his outstanding contributions in shaping the early development of mental health services in Hong Kong.

Dr Alan James Worsley (禾思理)

The Department of Pharmacology and Pharmacy, The LKS Faculty of Medicine, The University of Hong Kong, records with deep sadness the loss of **Dr Alan James Worsley (禾思理)**. He died at age 55 on 12 June 2021 in Manchester. Dr Worsley joined the Department of Pharmacology and Pharmacy in 2010 as Associate Professor. Over the years, he worked his way into the position of Principal Lecturer until he left the university in 2020. He also served as Director of Teaching and Learning of the Department till 2019.

Dr Worsley had played a major role in promoting pharmacy education. Dr Worsley had been a kind, caring and thoughtful member of the Department. We are all very grateful for his contribution and service to the University. His passing away is a great loss to the field of pharmacognosy, the Department and the University. We extend our deepest condolences to Dr Worsley's family.

With deep sorrow, we mourn the passing of the following Faculty alumni:

Dr Frank Cheng Chi-yan (鄭志仁) (MBBS 1963) passed away on October 5, 2020

Dr Edmund Cheung Man-tai (張文泰) (MBBS 1957) passed away on December 31, 2020

Dr Chiu Shin-chak (趙善策) (MBBS 1958) passed away on May 4, 2021

Dr Jackie Lam Chik-hing (林植興) (MBBS 1966) passed away on May 27, 2021

Dr Leung Sau-chi (梁秀芝) (MBBS 1972) passed away on April 12, 2021

Alumni News



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HKUMAA 130 Mentorship Programme Online Inauguration Ceremony and Sharing Forum



130 MENTORSHIP PROGRAMME

2019-21 Term Inaugural Ceremony

December 5, 2020



Dr Matthew Tsui, President of HKUMAA

The Online Inauguration Ceremony of the 130 Mentorship Programme was held on December 5, 2020 to mark the second cohort of the programme (2019-2021) with nearly 60 mentors and mentees participated.

The first Sharing Forum of the 130 Mentorship Programme was held on May 29, 2021. About 180 participants attended the event online and in person.

Public Health Alumni Society's New Council

The HKU Public Health Alumni Society held its online Annual General Meeting (AGM) on December 12, 2020 to elect a new Council. The newly elected members are as follows:

President:	Mr Edward Pinkney
Vice President:	Mr Ivan Wong Hoi-fung (黃凱烽)
Honorary Secretary:	Ms Kimberley Chow Lai-sze (周麗思)
Honorary Treasurer:	Mr Michael Wong Pui-fai (王沛輝)
Council Member:	Mr Chris Chen Rongqiang (陳榮強)

Gardening Talk Co-organised by HKUMAA

A talk on organic gardening, entitled 'Connecting with Nature: A Step to a Healthier Lifestyle', was held on May 1, 2021 by the Hong Kong Academy of Medicine (HKAM), HKU Medical Alumni Association (HKUMAA) and The Chinese University of Hong Kong Medical Alumni Association.



Sharing Corner



Dr Lawrence Tee Man-fai (MBBS 2007) and Ms Cecilia Chan



Dr Kevin Lau Chung Hang 劉仲恒 (MBBS 2005, MPH 2014),
Mrs Christine Lau Ma Lo Ming 劉馬露明 and their baby boy
Matthew Jonathan Lau 劉智安.

Next Generations

Applause

Ms Bu Yashan (步雅珊) and **Ms Jessica Tsang Kwan-wun** (曾琨媛), PhD students, Department of Ophthalmology, were awarded Travel Grant by The Association for Research in Vision and Ophthalmology (ARVO) Foundation in 2021.

Ms Chan Ka-ling (陳嘉玲), **Mr Chan Long-hin** (陳朗軒), **Mr Chan Yu-hang** (陳宇恒), **Ms Chen Shuqi** (陳殊祺), **Dr Manson Chu Cheuk-man** (朱卓文), **Ms Melissa Fu Tsing-lam** (傅靖琳), **Mr Ho Pui-kuen** (何沛權), **Mr Ho Tsz-ho** (何梓豪), **Mr Kan Cheung-heng** (簡昌恆), **Ms Kwok Ka-man** (郭嘉雯), **Ms Law Wan-pui** (羅尹珮), **Ms Lee Sze-wing** (利思穎), **Mr Li Chun-yeung** (李振洋), **Mr Li Wai-leuk** (李偉略), **Dr Om Dutta Pandey**, **Ms Sharon Pang Sze-lu** (彭詩路), **Mr Tam Kwan-kit** (譚君傑), **Mr Wong Shu-kwan** (黃樹鈞), **Dr Rigil Kent Yeung** (楊朗庭) and **Ms Yuen Wing-sze** (袁詠詩), Master of Public Health students, were granted the Targeted Taught Postgraduate Programmes Fellowship in 2020.

Mr Chen Hong-tai (陳鴻泰), PhD student, Department of Orthopaedics and Traumatology, won the Dr. Yeung Sai Hung Trophy for Best Paper on Adult Joint Reconstruction by associate member at The Hong Kong Orthopaedic Association 40th Annual Congress by The Hong Kong Orthopaedic Association in 2020.

Ms Chen Ningjing (陳寧靜) and **Ms Bailey Nam Sujun**, PhD students, School of Nursing, were granted Yip Cheung Yip Ka Bing Residential Scholarship (2019-20) in July 2020.

Mr Cheung Man-him (張文謙) and **Mr Hu Xiaoqian** (胡筱芊), PhD students, School of Biomedical Sciences, won Young Investigator Award for Oral

Presentation and Young Investigator Award for ePoster Presentation, respectively at the 15th International Virtual Symposium on Healthy Aging “Towards Enduring Youth”, by Research Centre of Heart, Brain, Hormone & Healthy Aging, HKUMed, in March 2021.

Ms Jessie Gong Weijie (公為潔) and **Mrs Hassen Semira Mehmed**, PhD students, School of Nursing, were granted two scholarships - Wong Ching Yee Medical Postgraduate Scholarship & YS and Christabel Lung Postgraduate Scholarship 2019/20 in March 2020.

Ms Hu Feng (胡風), **Mr Loh Jiajian** (羅佳健), **Ms Ng Raissa Regina** (黃佳清) **Ms Tan Xinyi** (陳歆榆) and **Ms Zheng Zhengfan** (鄭征帆), PhD students and **Miss Ng Sau-ni** (伍秀妮), MPhil student, School of Biomedical Sciences, were winners of Poster Presentation at the 25th Research Postgraduate Symposium, HKU, in December 2020.

Ms Athene Lam Hoi-ying (林鑑盈), **Mr Cody Mok Wing-long** (莫嶸朗), **Mr Sung Yu Chien** (宋昱謙) and **Ms Stephanie Tse Yi-kei** (謝倚祈), Master of Research in Medicine, MBBS students, were granted two scholarships - BL Wong Scholarships for Master of Research in Medicine and Yu Chun Keung Memorial Scholarship for Master of Research in Medicine in March 2021.

Ms Leung Tsz-ying (梁紫瑩) and **Ms Zhang Qingqing** (張晴晴), PhD students, Department of Obstetrics and Gynaecology, won the Best Oral Presentation Award and the Best Poster Presentation Award, respectively, at the 37th Annual Scientific Meeting & Annual General Meeting by The Hong Kong Society of Endocrinology, Metabolism and Reproduction in November 2020.

People

Ms Joy Li Sha (李莎), PhD student, School of Nursing, was awarded Bau Tsu Zung Bau Kwan Yeu Hing Research and Clinical Fellowship in September 2020 and was granted the YS and Christabel Lung Postgraduate Scholarship 2020/21 in April 2021.

Ms Rose Lin Sin-yi (凌善宜), PhD student, was granted HKU COA JMK Dementia Care Scholarship by Sau Po Centre on Ageing, The University of Hong Kong, in December 2020.

Mr Liu Teng-fei (劉騰飛), **Ms Loong Ho-chun** (龍浩珍) and **Mr Matthew Wong Tsz-lam** (黃子霖), PhD students, School of Biomedical Sciences, were winners of Oral Presentation at the 25th Research Postgraduate Symposium, HKU, in December 2020.

Mr Lo Yeung (盧洋), PhD student, School of Biomedical Sciences, was one of the awardees at the 24th Recognition Ceremony, by Centre of Development and Resources for Students (CEDARS), HKU, in April 2021. He and **Mr Wang Lin** (王琳), PhD students, School of Biomedical Sciences, won the Grand Prize (Innovation) and First Prize (Life Sciences) in The 6th Hong Kong University Student Innovation and Entrepreneurship Competition, by Hong Kong New Generation Cultural Association in December 2020.

Ms Mo Yufei (莫宇飛), PhD student, won the Poster Presentation Award at Hong Kong Immunology Forum 2020, by The Hong Kong Society for Immunology in December 2020.

Mr Rahaman Syed Mushfiquir, PhD student, Department of Surgery, was granted Hui Pun Hing Memorial Postgraduate Fellowship by the Hui Pun Hing Endowment Fund in December 2020.

Ms Asra Sainju, Undergraduate student, School of Biomedical Sciences, granted The Ethnic Minority Women and Girls Scholarship by The Zubin Foundation in October 2020.

Mr Sun Zhongqing (孫中輕), PhD student, won Tianjiang Cup Li Shizhen Youth Outstanding Thesis Award at The 16th International Postgraduate Symposium on Chinese Medicine in August 2020.

Ms Sum Min-yi (岑敏怡) and **Ms Stephanie Wong Ming-yin** (王名彥), PhD students, Department of Psychiatry, won the Early Career Award at 2021 Schizophrenia International Research Society Congress in February 2021.

Ms Naomi Takemura (竹村奈緒美), PhD student, School of Nursing, was granted Wong Ching Yee Medical Postgraduate Scholarship 2020/21. She and **Ms Lubecca Zhao Shengzhi** (趙盛之), PhD students, School of Nursing, won the Outstanding Presentation Award and Peers' Choice Presentation Award, respectively, at U21 Research Postgraduate Symposium (online) in December 2020.

Ms Wong Wing-yan (黃穎欣), Undergraduate student, School of Biomedical Sciences, was granted The Innovation and Technology Scholarship, by The Hong Kong Federation of Youth Groups in September 2020.

Ms Wendy Zhang Wen (張雯), PhD student, School of Nursing, granted Glasgow/HKU Early Career Mobility Funds 2019-20 in April 2019 and YS and Christabel Lung Postgraduate Scholarship 2020/21 in December 2020.

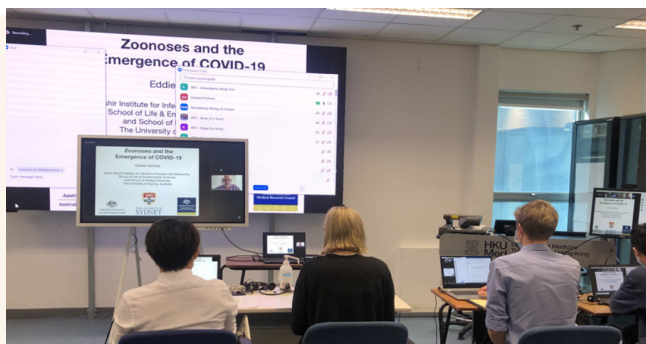
Ms Zhou Dongyan (周冬燕), PhD student, Department of Microbiology, won the Poster Presentation Award at the 25th Research Postgraduate Symposium in December 2020.

Ms Zou Yixin (鄒藝辛), PhD student, was awarded the Research Grant by The Hong Kong Society of Nephrology in September 2020.



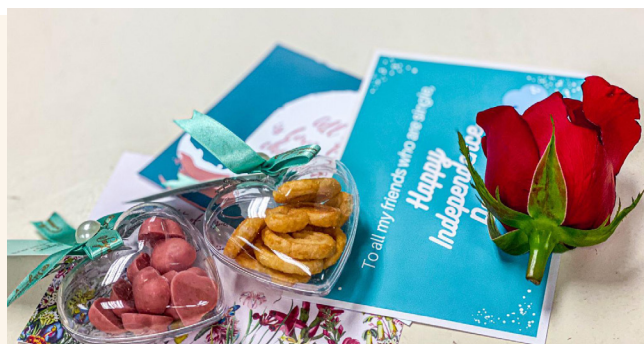
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Events



Dec 2 – 3, 2020

Research Postgraduate Symposium 2020 (Online)



Feb 8 – 11, 2021

Valentine's Day Gift Sale



Feb 27, 2021

The Medical Society Inauguration Ceremony



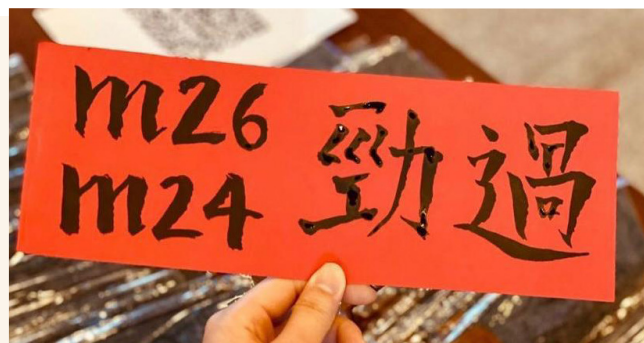
March 20 – 21, 2021

MedStart 2021 "Pandemics in Practice" hosted by
Asian Medical Students' Association Hong Kong (Online)



April 2021

Interfaculty Competition



April 16 – 20, 2021

Superpass!

Thank you!

As of April 30, 2021

HK\$1,000,000 or above

Bank of China (Hong Kong) Limited

'SUPPORT+' project is funded by BOCHK Centenary Charity Programme. This 5-year project aims to develop a mobile apps that can improve communication and provide education to advanced cancer patients and carers to enhance community palliative care and end-of-life care.

Chan Kin Shing Charitable Trust

In support of the research for effective treatments for Alzheimer's disease undertaken by Dr Chan Koon-ho

Croucher Foundation

In support of the evaluation for a community service 'Ethnic Minority Well-being Center' which will offer counselling and psychological support specific to ethnic minority families and individuals with mental health issues in Hong Kong.

Friends of Hope Education Fund Limited

In support of the research and development of the COVID-19 vaccine undertaken by the AIDS Institute, Department of Microbiology

Mrs Rossana Gaw

To support the Division of Infectious Diseases to set up a P2 laboratory undertaken by Professor Ivan Hung Fan-ngai

Hong Kong Blood Cancer Foundation

PET/CT Scan for lymphoma patients

Hong Kong Hereditary Breast Cancer Family Registry Limited

In support of the research study in connection with the Hong Kong Hereditary and High Risk Breast Cancer Programme (HRBCP) undertaken by Professor Ava Kwong

Institut Pasteur

Annual support for HKU Pasteur Research Pole's research and teaching fund (1st instalment)

Mrs Kong Leong Pui Yee

In support of the Stroke Research and Prevention group led by Dr Gary Lau Kui-kai

Lee Wan Keung Charity Foundation Limited

In support of COVID-19 research undertaken by Professor Tse Hung-fat and Professor Ivan Hung Fan-ngai

Li Ka Shing Foundation

In support of Timely Detection of Liver Cancer In Patients with Liver Diseases to Improve Patients' Survival in Queen Mary Hospital undertaken by Professor Richard Yuen Man-fung

Li Ka Shing Foundation

In support of Early Radiological Examination to Gastroenterology Patients to Improve Patient Management undertaken by Professor Leung Wai-keung

Dr Rita T. Liu ^{SBS} of L & T Charitable Foundation Ltd. & Bingei Family of Indo Café

In support of the research in diabetic kidney disease undertaken by Professor Sydney Tang Chi-wai and Dr Joseph Leung Chi-kam

Dr Rita T. Liu ^{SBS} & All Directors of L & T Charitable Foundation

In support of the Bingei and L & T Charitable Foundation Professorship in Dementia Research (2nd instalment)

Dr Rita T. Liu ^{SBS} & All Directors of L & T Charitable Foundation

In support of the L & T Charitable Foundation Professorship in Biomedical Sciences (4th instalment)

The Estate of late Dr Vincent Liu Lit Chung

In support of the Liu Po Shan/Dr Vincent Liu Endowment Fund for Motor Neurone Disease

The Johnson Ng Family Trust

In support of Dr Michael Ni Yuxuan's project entitled 'Territory-wide Barometer for an Unprecedented Era: Mental Health in Youths and across the Life Course - Replenishment Sample of Households with Youths'

Providence Foundation Limited

Research project for investigation of a broader paediatric population and more advanced immune responses to COVID-19 vaccines

Dr Siu Mei Fung Gloria

In support of the Clinical Neurogenetics Research undertaken by Professor Ho Shu-leong

Mrs Tam Mak May Mei Yin

In support of the Stroke and Dementia Research undertaken by Dr Gary Lau Kui-kai

Mr Tang King Yin

In support of the blood cancer treatment and research undertaken by Professor Anskar Leung Yu-hung

WYNG Foundation

In support of 'The Trailblazer Project Phase I: The WYNG-HKU Flagship Programme on Country Parks and Well-being' undertaken by Dr Michael Ni Yuxuan

WYNG Foundation

In support of 'The Trailblazer Project Phase II: The WYNG-HKU Flagship Programme on Country Parks and Well-being' undertaken by Dr Michael Ni Yuxuan

WYNG Foundation

In support of the development and launch of the 'World Health Organization World Mental Health Composite International Diagnostic Interview 5.0 in Hong Kong' led by Dr Michael Ni Yuxuan

S.K. Yee Medical Foundation

Free MRI scans to financially needy patients

HK\$500,000 or above

Dr George Cheng Pak Man

To support the eye research study – Thermage Project undertaken by Dr Loraine Chow Lok-wan

Chi Lin Kok Ng Buddhist Hall Limited

Cell Replacement Therapy Against Neurodegenerative Disease, undertaken by Professor Chan Ying-shing

Hemix Biotech Co., Ltd

To support Professor Zhou Zhongjun's research on 'CBD in infectious diseases'

Dr Betty Lee Hing Chu

In support of Professor Yuen Kwok-yung's team in the Department of Microbiology

Sun Chieh Yeh Heart Foundation

In support of the research project 'A prospective study to evaluate the changes of right ventricular longitudinal strain in patients with stage B and C heart failure after one-year follow up' undertaken by Dr Yiu Kai-hang (1st instalment)

Vincent Medical Holdings Limited

In support of the establishment of Vincent Medical Enrichment Scholarship for Medical Students

Judy S.C. Wong of Immumax Wellness Centre Limited

Investigation of cognitive/antidepressant enhancement by non-invasive transcutaneous electrical nerve stimulation (TENS) in human/preclinical models of dementia and/or depression, undertaken by Dr Lim Lee-wei.

Mr Yeung Chun Fan of GS Charity Foundation Limited

In support of Professor Richard Yuen Man-fung's research activities in hepatology

HK\$100,000 or above

Ms Louisa Chen

In memory of her mother Ms Christina Chan Mui and in support of the establishment of Christina Chan Mui Memorial Scholarship for Medical Students

Ms Chung Siu Fan, Rita

In support of the basic and clinical research in nephrology undertaken by Professor Sydney Tang Chi-wai

Hong Kong Cancer Fund

In support of Dr Wendy Lam Wing-tak's research project entitled '2015-19 Nurse-led symptom/psycho-oncology clinic' (8th instalment)

Institut Pasteur

In support of the doctoral grant for Master of Philosophy (MPhil) / Doctor of Philosophy (PhD) study at HKU Pasteur Research Pole

Institut Pasteur

In support of the research grant at HKU Pasteur Research Pole

JinKangDaoFu (HK) Bio-Technology Limited

To support Professor Zhang Zhangjin's research project in the School of Chinese Medicine

Kerry Group

In support of The WeRISE Mobile Platform for Stroke Patients and their Caregivers undertaken by Dr Gary Lau Kui-kai

Mrs Kong Leong Pui Yee

In support of the Stroke Research and Prevention group led by Dr Gary Lau Kui-kai

Dr Betty Lee Hing Chu

In support of the LKS Faculty of Medicine

Dr Betty Lee Hing Chu

In support of Department of Clinical Oncology

Ming Hing Waterworks

In support of research program in non-fusion treatment techniques in scoliosis

NuVasive Inc

In support of MAGEC Rod on surgical implant for conducting a biomechanical study in Department of Orthopaedics and Traumatology

Mrs Ong Chan Chui Ling, Paula

In support of G.B. Ong Visiting Professorships & Visiting Fellowships

Rusy and Purviz Shroff Charitable Trust

In support of the establishment of Rusy and Purviz Shroff Medical Springboard Scholarship

Dr Siu Mei Fung Gloria

In support of the Clinical Neurogenetics Research undertaken by Professor Ho Shu-leong

Dr So Ping Cham

In recognition of the research work in controlling the pandemic under the leadership of Professor Gabriel Leung in the School of Public Health

Dr So Ping Cham

In recognition of the research work in combating COVID-19 under the leadership of Professor Yuen Kwok-yung in the Department of Microbiology

The Society for the Relief of Disabled Children

In support of the project of 'Three Dimensional Analysis of Scoliosis aka The prevention of curve deterioration in scoliosis'

The Society for the Relief of Disabled Children

In support of the Clinical Research Fellowship Program in Spinal Surgery and Paediatric Orthopaedics

Sun Chieh Yeh Heart Foundation

In support of the project 'Utilization of the TytoCare telehealth system for clinical teaching in medicine for specialty clerkship students' undertaken by Dr Jo Jo Hai Siu-han

Paul C.K. Tang & Chiu Solicitors & Notaries

In support of the Jockey Club Institute of Cancer Care (JCICC)'s service provision to patients who were eligible for Comprehensive Social Security Assistance (CSSA) / Old Age Living Allowance (OALA) / Waiver of medical charges for the period between January 2021 and March 2022

Town Health International Medical Group Limited

In support of the Town Health International Medical Group Student Support Grant

Xenothera

In support of the research project entitled 'Protection of SARS-CoV-2 infection by swine glycol-humanized polyclonal antibodies in mice'

Dr Yip Ka Chee

In memory of his dear friend Dr Lo Wai Hoi (MBBS 1958) and in support of the establishment of Lo Wai Hoi Memorial Scholarship

Mr Norman Yip

In support of the epidemiology research work conducted by Professor Gabriel Leung

In support of 'Get Up and Walk' Campaign
– URBAN CLIMB 300M+

HK\$1,000,000 or above:

Chinachem Group

HK\$100,000 or above:

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Hien Lee Engineering Co Ltd

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Sheen King Curtain Wall Engineering Limited

Sunley Engineering & Construction Company Limited

Mrs Tam Mak May Mei Yin

Willis Hong Kong Limited

Ying Wah Construction Group Limited

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Photo: Dr Francis Siu (1962) / *The Troop*



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