



何鴻燊博士醫療拓展基金會
Dr. Stanley Ho Medical Development Foundation

聯合主辦
Jointly organized by



香港中文大學
The Chinese University of Hong Kong

2016

何鴻燊博士醫療拓展基金會 醫學研討會

Dr Stanley Ho Medical Development Foundation Symposium

何鴻燊博士醫療拓展基金會總部
澳門友誼大馬路555號澳門置地廣場9樓
Headquarters, Dr. Stanley Ho Medical Development Foundation
9/F., Macau Landmark, 555 Avenida Da Amizade, Macau

二零一六年一月廿三日 下午十二時半至六時半

23 January 2016, 12:30pm - 6:30pm

二零一六年一月廿四日 上午九時半至下午一時半

24 January 2016, 9:30am - 1:30pm

統籌主任 Co-ordinator:

許樹昌教授

Prof David Hui Shu Cheong

香港中文大學 何鴻燊呼吸系統學講座教授
Stanley Ho Professor of Respiratory Medicine
The Chinese University of Hong Kong

胡錦生教授

Prof Woo Kam Sang

香港中文大學 生命科學學院客座教授
Adjunct Professor, School of Life Sciences
The Chinese University of Hong Kong

贊助單位 Co-organizer:

中國工商銀行(澳門)股份有限公司

Industrial and Commercial Bank of China (Macau) Limited

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23 Jan 2016 (Saturday) • 二零一六年一月廿三日 (星期六)

12:45pm 入席登記 Registration

1:15pm 開幕致詞 Opening address

Chairpersons: 馬學章醫生 Dr Ma Hok-Cheung
郭昌宇醫生 Dr Kuok Cheong-U

1:30pm 李英傑教授 Prof Kenny Lei Ieng-Kit

Advances in the Management of Blood Cancer: New Drugs, New Approach

2:00pm 黃煒燊教授 Prof Vincent Wong Wai-Sun

Non-alcoholic Fatty Liver Disease

2:30pm 葉慶龍教授 Prof Vincent Ip Hing-Lung

Management of Cranio-cervical Arterial Stenosis

3:00pm 呂信邦教授 Prof Leu Hsin-Bang

The Management and Prevention of Ischemic Heart Disease

3:30-4:00pm 休息時間 Tea Break

Chairpersons: 霍文遜醫生 Dr Manson Fok
胡錦生教授 Prof Woo Kam Sang

4:00pm 容樹恆教授 Prof Patrick Yung Shu-Hang

Application of Cutting-Edge Technologies in Managing Orthopaedics Problems

4:30pm 鍾紅秀教授 Prof Zhong Hong-Xiu

Prevention and Treatment Strategy of Women Cervical Cancer and Breast Cancer

5:00pm 唐志輝教授 Prof Michael Tong Chi-Fai

Recent Advances in ENT

5:30pm 莊金隆教授 Prof Kelvin Chong Kam-Lung

Recent Advances in Ophthalmology

6:30pm Welcome Dinner (*invited guests*)

24 Jan 2016 (Sunday) • 二零一六年一月廿四日 (星期日)

9:15am Souvenir presentations

Chairpersons: 謝孟雄教授 Prof Shieh Mung-Shiung
林偉基教授 Prof Christopher Lam Wai-Kei

9:30am 趙效明教授 Prof Chao Hsiao-Ming

Retinal Ischemia & its Relevance to Brain Ischemia: Bench to Clinical, Steroid, Anti-VEGF, Neuroprotectant, Retinal Chip & Stem Cell

10:00am 張源斌教授 Prof Anthony Teoh Yuen-Bun

Recent Advances in Endoscopic Procedures

10:30am 鄔揚正教授 Dr Eugene Wu Yeung-Ching

Interventional Cardiology

11:00-11:30am 休息時間 Tea Break

Chairpersons: 許樹昌教授 Prof David Hui Shu-Cheong
余德新教授 Prof Ignatius Yu Tak-Sun

11:45am 倪珍莉教授 Prof Jenny Ngai

Interventional Pulmonology

12:15pm 王彥暉教授 Prof Wang Yan-Hui

Chinese Medicine Treatment of Heel Pain

12:45pm 郭志銳教授 Prof Timothy Kwok Chi-Yui

Prevention of Dementia

1:30pm 閉幕詞 Closing address

主席的話 MESSAGE FROM THE CHAIRMAN



2015 has been a successful year for our Foundation. We had achieved something extraordinary and meaningful to our community, including the general public as well as the academy. Here are the highlights:

1) Annual Medical Symposium celebrating its 10th anniversary

2015 marked the 11th round of the Foundation's Annual Medical Symposium which has become the most important platform for medical practitioners in Macau to learn from overseas speakers on the latest technology and discoveries in medical and health research. Moreover, the Foundation's office in Macau continues to serve as a venue for conferences and meetings organized by various medical and professional organizations which further enhances the Foundation's relationship and goodwill with the local community.

2) Visit by MIT professor and workshop on E-learning and big data

A joint workshop on E-learning and Big Data, hosted by the Foundation and Massachusetts Institute of Technology (MIT) and co-organized by Tertiary Education Services Office, Macau SAR, was held on 27th Mar 2015. Four distinguished MIT professors were invited, who shared with universities and government officials in Macau about their research findings and outlook on E-learning, including how to stimulate innovative ideas for using information and communication technologies in learning and teaching.

We met with Prof. Benson Yeh from the Taiwan National University, who is a champion of E-learning in Taiwan. He has expressed interest in introducing his award-winning teaching method to Macau with the Foundation's support.

3) Visit to HKU and CUHK Engineering Faculty by FDCT (Fundo para o Desenvolvimento das Ciências e da Tecnologia)

With the help of the Foundation, FDCT visited HKU and CUHK to learn the latest development in Advanced Robotics Initiatives on 19th Aug 2015.

4) Seminar on Air Pollution and Health in Macau

The Foundation hosted a public seminar on air pollution and health on 19th Sep 2015 with a view to transfer scientific knowledge to daily applications in Macau. Two professors from CUHK delivered talks regarding outdoor and indoor air pollution and their significance to human health. This marked the first of many seminars on public health as part of the Foundations strategy to improve population health in Macau.

5) 3rd Health Exhibition in Hong Kong and Macau

With the help of the Foundation, CUHK's Health Exhibition 2015 was held at Pui Ching Middle School this year from 31st Oct to 1st Nov 2015. The title of the health exhibition was 'I Seek I Care', on the topic of ophthalmology. Talks, free health checks and board presentations on eye diseases and eye care were provided to the Macau public.

6) BMI Launch in Hong Kong and Macau

The Foundation made a generous donation to CUHK to establish the Brain and Mind Institute (BMI) in order to facilitate interdisciplinary research on the causes of and therapeutic strategies for responding to different developmental disorders, from birth throughout the lifespan.

The opening ceremony in Hong Kong and Macau were officiated by Prof. Joseph J. Y. Sung and were held on 12th and 13th Nov 2015. Prof. Patrick C.M Wong was appointed Stanley Ho Professor of Cognitive Neuroscience and Director of BMI.

This institute is the first research institute in Hong Kong to consolidate the expertise of cognitive neuroscience, biomedical sciences, psychology, linguistics, otolaryngology, pediatrics, public health and other academic and clinical disciplines to conduct inter-disciplinary research for the investigation of these conditions.

7) International symposium on Cognitive and Developmental Neuroscience in Hong Kong and Macau

Four distinguished professors from US/UK and three from CUHK delivered talks on language and developmental disorders, such as autism. The symposium, supported by the Foundation, was held in HK & Macau on 12th and 13th Nov 2015 and marked a new catalyst to facilitate research on cognition and language development for children in Macau.

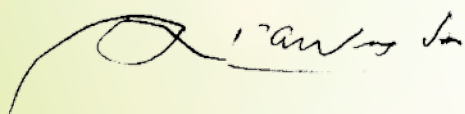
8) CUAAM launch in Macau

The Foundation helped to establish the Chinese University of Hong Kong Alumni Association in Macau (CUAAM), who held their Inaugural Ceremony on Friday, 13th Nov 2015. Officiating guests included Prof. Joseph Sung, officers from SAR Government of Macau and Liaison Office of the Central People's Government. The association aims to enhance the interaction among CUHK alumnus in Macau and to promote CUHK in Macau.

9) Development of Bio-markers for head and neck cancer detection and treatment

Head and Neck Squamous Cell Carcinoma (HNSCC) is common in the south of China, including Macau and Hong Kong. To improve the management of HNSCC, starting from early detection to confirmation, the Foundation will fund CUHK on the identifying and development of bio-markers for HNSCC. The results of this project will provide a key platform for advancing treatment of HNSCC.

We would like to take this opportunity to thank you all in making these events possible. Without your collaborative input and involvement, we could not have accomplished all these achievements and strived to elevate the standard of health and education in Macau. We would also like to wish you and your family a happy and peaceful year in 2016.



Dr. Stanley Ho

Chairman

Dr. Stanley Ho Medical Development Foundation

2015 年基金會碩果累累，不僅給澳門廣大民眾帶來健康獲益，也給各界同仁們帶來更為廣闊的學習交流成果。

1) 醫學研討會 10 週年慶典

2015 年標誌著基金會第十一屆年度醫學研討會的成功舉辦，也成為澳門醫學界同仁與海內外學者學習交流最新醫療技術和研究成果的最重要平台。此外，基金會澳門會場繼續為澳門各醫療團體免費提供培訓會議場所，充分體現基金會與本地機構的互幫互助精神。

2) MIT 教授到訪澳門以及 E-learning 與大數據的工作坊

2015 年 3 月 27 日，由基金會與美國麻省理工學院聯合舉辦、澳門高等教育輔助辦公室協辦的 E-learning 與大數據的學習研討會在澳門舉辦。來自麻省理工學院的四位傑出教授與澳門高校學者以及政府官員分享了他們有關電子教育方面的研究成果和未來展望，進一步了解應用信息交流新技術進行教學的創新思維。此外，在基金會的支持下，來自台灣國立大學的葉丙成教授也同意與我們合作，將他獲獎的教學方法帶給澳門，提升澳門 E-learning 的氛圍和效率。

3) 澳門科技發展基金會訪問香港大學和中大工程學院

2015 年 8 月 19 日，基金會組織了澳門科學技術發展基金會，訪問香港大學與香港中文大學，進一步了解機器人創新的最新進展。

4) 空氣污染與健康研討會

為實現在澳門將科學知識轉化為日常應用，基金會在 2015 年 9 月 19 日舉辦空氣污染與健康研討會。來自香港中文大學的教授為市民講解室外與室內空氣污染對健康的影響。此是我們在公共衛生領域的第一次研討會，體現了基金會為提升澳門公眾健康的社會責任。

5) 第三屆香港澳門健康展覽

在基金會的資助下，香港中文大學學生會 2015 年健康展覽于 10 月 31 日和 11 月 1 日在澳門培正中學成功舉辦。本次展覽主題為「視如至親」，為澳門學生和市民提供眼科講座、眼科檢查以及眼科知識的展覽。

6) BMI 在香港與澳門的成立

由基金會捐贈成立的大腦與認知研究所，旨在調查研究從出生開始的各種兒童發育問題，促進在病因與治療策略等方面的跨學科研究。

由香港中文大學校長沈祖堯教授宣佈成立的大腦與認知研究所于 2015 年 11 月 12 日、13 日在香港、澳門舉行成立典禮。黃俊文教授被任命為該研究所的神經認知教授和主任。研究所為香港首個結合了認知神經科學、生物醫學、心理學、語言學、耳鼻喉學、兒科學、公共衛生以及其他臨床科學等多學科的研究機構，是一個綜合防治兒童發展發育過程中的語言障礙等各種疾患提供跨專業合作平台。

7) 香港與澳門的「認知與發育神經科學」國際研討會

2015 年 11 月 12-13 日，來自美國英國著名大學的四位傑出教授以及三位中大教授於香港和澳門，就兒童語言發展問題如自閉症等，分享了他們的研究成果。由基金會資助的是次國際研討會，是基金會為促進澳門在兒童的認知與語言發展研究方面而開闢的新催化領域。

8) 香港中文大學澳門校友會成立

由基金會協助成立的香港中文大學澳門校友會（CUAAM）于 2015 年 11 月 13 日舉行成立慶典。出席嘉賓包括沈祖堯校長、澳門特區政府以及中聯辦的官員們。該校友會旨在加強中大校友們在澳門的聯繫以及提升中大在澳門的影響力。

9) 頭頸部腫瘤偵測與治療的標誌物研究

頭頸部腫瘤在華南地區包括香港澳門發病較為普遍，為更好防治此類腫瘤，基金會資助發展此類腫瘤的生物標誌物，為從早期偵測診斷到後期的治療效果等方面提供重要的分子理論平台。

我們藉此感謝所有幫助的同仁們，是您們的無私幫助，基金會才得以逐步實現提升澳門健康與教育的宗旨。期待今後繼續得到您們的支持與合作，從而基金會可以做更多的事情來回饋澳門、回贈社會。我們也衷心祝願您及您的家人 2016 年幸福安寧，更上一層！

何鴻燊博士

主席

何鴻燊博士醫療拓展基金會



香港中文大學
The Chinese University of Hong Kong

Message

Chairman, distinguished guests and speakers, ladies and gentlemen, I am very pleased and honoured to welcome you all to the twelfth Dr Stanley Ho Medical Development Foundation Symposium, organized by the Foundation and The Chinese University of Hong Kong. On behalf of the Faculty of Medicine, The Chinese University of Hong Kong, I would like to extend our warmest welcome to all speakers and participants of the symposium, which further promotes the application of advances in medicine for the management of many prevalent diseases in the region.

The Dr Stanley Ho Medical Development Foundation was established in January 2005. Its objective is to provide a platform for medical practitioners in Macao to acquire advanced professional knowledge. To achieve this objective, the Foundation has in the past years organized a series of activities including healthcare courses, collaborative research projects, the Outstanding Achievement Awards scheme for healthcare workers, the establishment of Healthland for health exhibition, and the foundation of Macau Alzheimer's Disease Association. The annual medical symposium is the highlight of this series. All these activities have attracted tremendous interest and support from medical practitioners and other healthcare workers in Macao, Hong Kong and the Chinese Mainland. The enthusiastic participation of the young healthcare professionals has been particularly overwhelming.

As in the past years, the programme of today's Symposium is rich and covers a wide variety of medical advances: management of blood cancer, non-alcoholic fatty liver, cranio-cervical arterial stenosis, ischemic heart disease and prevention, cutting-edge technologies in orthopaedics problems, women's cervical and breast cancer, retinal and brain ischemia, and dementia prevention, advances in ENT, ophthalmology, endoscopic procedures, interventional cardiology and pulmonology, as well as Chinese medicine in heel pain. We are very fortunate to have many distinguished speakers to share their precious experience with us. Their support of the Symposium is most appreciated.

We are very grateful to the Dr Stanley Ho Medical Development Foundation for its staunch support of life-long continuing medical education. The Chinese University of Hong Kong is very fortunate and proud to be associated with the Foundation in promoting this great initiative. I would also like to take this opportunity to express my appreciation and gratitude to members of the Organizing Committee for their time and effort in putting together today's programme. I wish you all a very enjoyable and fruitful symposium.

Joseph J Y Sung
Vice-Chancellor and President

歡迎辭 WELCOME MESSAGE



Welcome to the twelveth Dr. Stanley Ho Medical Development Foundation Symposium. On behalf of the Faculty of Medicine of The Chinese University of Hong Kong, I would like to extend our warmest welcome to all speakers and participants of the symposium.

The Dr. Stanley Ho Medical Development Foundation was established in January 2005. Its objective is to provide a platform for medical practitioners in Macau to acquire advanced professional knowledge. To achieve this objective, the Foundation has in the past years organized a series of activities including healthcare courses, collaborative research projects, the Outstanding Achievement Awards scheme for healthcare workers, establishment of Healthland for health exhibition, and foundation of Macau Alzheimer's Disease Association. The annual medical symposium is the highlight of this series. All these activities have attracted tremendous interest and support from medical practitioners and other healthcare workers in Macau, Hong Kong and Mainland. The enthusiastic participation of the young healthcare professionals has been particularly overwhelming.

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A stylized, handwritten signature in black ink, appearing to read 'Francis Chan'.

Professor Chan Ka Leung Francis

Dean

Faculty of Medicine

The Chinese University of Hong Kong



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血癌治療之最新進展

Advances in the Management of Blood Cancer: New Drugs, New Approach

李英傑教授 Prof Kenny Lei Ieng-Kit

香港中文大學腫瘤學系名譽臨床副教授及顧問醫生

*Consultant & Hon. Clinical Associate Professor, Department of Clinical Oncology,
The Chinese University of Hong Kong*

Blood cancer is a heterogeneous group of diseases. While some run an indolent course with multiple relapses and prolonged survival, others behave aggressively and are associated with poor prognosis and survival. With the improved understanding of molecular mechanisms of haematologic malignancies, new molecular pathways and targets have been identified, leading to the development of many novel agents and treatment approaches such as B-cell receptor signalling pathway inhibitors, BCL-2 inhibitors, proteasome inhibitors, immunomodulating agents, monoclonal antibodies and modified CAR-T cell therapy. These novel agents alone or in combination with current therapies have not only improved the response rate and outcome in patients with relapsed and refractory diseases but also changed the landscape in the management of haematological malignancies. This presentation will highlight some of the recent advances in the management of leukaemias, myeloma and lymphomas.



非酒精性脂肪肝的診治 Non-alcoholic Fatty Liver Disease

黃煒榮教授 Prof Vincent Wong Wai-Sun

香港中文大學內科及藥物治療學系腸胃及肝臟科教授

*Professor, Division of Gastroenterology & Hepatology, Department of Medicine & Therapeutics,
The Chinese University of Hong Kong*

Non-alcoholic fatty liver disease (NAFLD) is currently the most common chronic liver disease worldwide. It may progress to cirrhosis and liver cancer. According to disease severity, NAFLD can be divided into non-alcoholic fatty liver and non-alcoholic steatohepatitis (NASH). The latter exhibits liver injury and is associated with long-term complications.

In Hong Kong, the population prevalence of NAFLD is 27% and the incidence is 3-4% per year. Metabolic syndrome is the main association with NAFLD. In routine clinical practice, abdominal ultrasonography is the most commonly performed test to diagnose fatty liver, after careful exclusion of other concomitant liver diseases. Liver biochemistry correlates poorly with the histological severity of NAFLD, and many non-invasive tests of liver fibrosis have been developed in the past decade.

Lifestyle modification with healthy diet and regular exercise remains the cornerstone for the management of NAFLD. In patients with NASH, pharmacological treatment with vitamin E or pioglitazone may be considered. Vitamin E is an anti-oxidant with neutral effect on the metabolic profile, while pioglitazone is an insulin sensitizer and an anti-diabetic drug. Both drugs have been shown to reduce liver fat and inflammation in patients with NASH. Because of modest efficacy and uncertain long-term safety, many new drugs are under development for the management of NASH.



頭頸動脈血管狹窄的處理

Management of Cranio-cervical Arterial Stenosis

葉慶龍教授 Prof Vincent Ip Hing-Lung

香港中文大學內科及藥物治療學系腦神經科名譽臨床副教授及副顧問醫生
Associate Consultant & Hon. Assistant Professor, Division of Neurology,
Department of Medicine & Therapeutics, The Chinese University of Hong Kong

Steno-occlusive disease of cranio-cervical artery is the most common cause of stroke worldwide. In Hong Kong, more than 80% of stroke are due to ischemia and common causes include atherosclerosis, radiation-induced vasculopathy, Moyamoya disease and not infrequently autoimmune-related vasculitis.

Management of ischemic stroke is always challenging owing to its complexity of underlying pathophysiology and diverse clinical presentations. Physicians are required to have a thorough understanding of the hemodynamics of cerebral perfusion and a cautious formulation of the future risk of stroke before recommending the appropriate treatment, be it medical therapy, surgical treatment or both. This lecture will focus on the management approach based on the latest evidences.



缺血性心臟病之治療與預防

The Management and Prevention of Ischemic Heart Disease

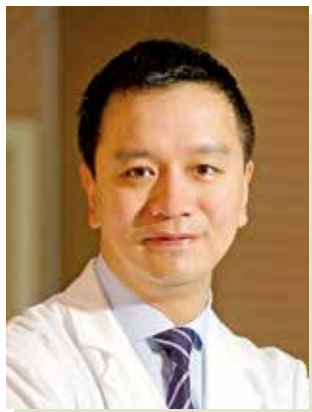
呂信邦教授 Prof Leu Hsin-Bang

台北榮民總醫院醫學系心臟科助理教授

*Assistant Professor, Division of Cardiology, Department of Medicine,
Taipei Veterans General Hospital, Taipei, Taiwan*

Acute coronary syndrome is a life-threatening event that affects millions of people each year and accounts for a big portion of hospital visits. Although great effort has been applied to modify risk factors to reduce the occurrence of cardiovascular disease (CVD), rates of CVD and mortality continue to increase. CVD is a very complex disease which involves multiple biological pathways including lots of mediators, genes, environment risk factors, and gene-environment interactions. In addition to traditional risk factors such as hypertension, diabetes, dyslipidemia, and smoking, biomedical researchers keep a watchful eye for any gene, protein, or metabolite expressions that could serve as biomarkers indicative of early disease phenotypes, or predictive of disease progression and outcome. The integrative computational approach with combination of all information could offer new and deeper views of underlying mechanism of disease.

With the improvement treatment devices and statin-based therapy, more and more coronary stenotic lesions could be treated. However, the treatment guidelines are continuously evolving as more multicenter randomized trials, new medications and new technologies continue to change the way we treat CVD. Although these patients are controlled well adhering to current treatment guideline, an increased baseline inflammation status still is observed in our current study, indicating the persisted and high inflammatory property of CVD. New markers are investigated to provide better predictive value in prognosis among CAD patients in addition to traditional biomarkers. Additionally, psychological personality as well as lifestyle factors also contributed to affect long-term outcome in patients with CAD. The understanding of interactions of risk factors, environment lifestyle and psychological issue may help to elucidate the complex underlying mechanism of CVD and help to identify subjects at high risk of developing future adverse event of cardiovascular events to provide a more individual and efficient treatment strategies for patients with cardiovascular disease.



現代尖端科技於骨科治療的應用

Application of Cutting-Edge Technologies in Managing Orthopaedics Problems

容樹恆教授 Prof Patrick Yung Shu-Hang

香港中文大學矯形外科及創傷學系名譽臨床副教授及顧問醫生

Consultant & Hon. Clinical Associate Professor, Department of Orthopaedics & Traumatology, The Chinese University of Hong Kong, Hong Kong

The Development of Orthopaedics surgery has been growing tremendously over the past 30 years. The application of computer navigation assisted surgery has been very popular over the past 15 years in all the different subspecialties in Orthopaedic, including Trauma surgery, Spine surgery, Joint replacement, Pediatrics deformity correction, Tumor excision and reconstruction, and even in arthroscopic ligament surgery in Sports Medicine. The advances in implant design, from material engineering to structural design, has largely facilitate the works and outcome of Orthopaedics & Trauma management. The involvement of Robot in Orthopaedics surgery has also been started in recent years, though there are still lots of rooms to be improved it the application, but the initial results are very encouraging. The recent abundant resources putting in Stem cell & regenerative medicine researches has greatly facilitated the breakthrough in treatment of a lot of difficult Orthopaedics problems, such as tendinopathy and cartilage injuries. In this symposium, the speaker is going to bring you through an overview of all the recent advances in the application of Cutting Edge Technologies in Managing Orthopaedic Problems.



婦女子宮頸癌及乳癌的防治策略

Prevention and Treatment Strategy of Women Cervical Cancer and Breast Cancer

鍾紅秀教授 Prof Zhong Hong-Xiu

廈門婦幼保健醫院副院長

Associate Dean, Xiamen Maternal and Child Health Care Hospital, Xiamen, China

- Introduce morbidity and screening system of "two cancers" in Xiamen
- Focus on pathogenic factors, screening methods, and treatment methods of cervical cancer and breast cancer.



耳鼻喉的最新進展 Recent Advances in ENT

唐志輝教授 Prof Michael Tong Chi-Fai

香港中文大學耳鼻咽喉頭頸外科系系主任及教授
Professor & Chairman, Department of Otorhinolaryngology, Head & Neck Surgery,
The Chinese University of Hong Kong

Professor Michael Tong, Chairman, Department of Otorhinolaryngology, Head and Neck Surgery, The Chinese University of Hong Kong

Ear Nose and Throat is a specialty encompasses several subspecialties linking with human senses and functions in the head and neck. The advances in hearing research over the past decades notably with the usage of hearing implants has shown success in managing deafness as a disease. Genetic and minimally invasive techniques alongside with the advances of engineering into hearing rehabilitation are moving fast in this respect. We also see the development of treatment in nasal surgery with further extension of the endoscopic assessment to the skull base. Voice and swallowing research allow us to understand more on the functional aspects of our upper respiratory tract. Advances in head and neck surgery include the use of minimally invasive techniques and robotics. These topics will be outlined with reference to research and development of our department in the Chinese University of Hong Kong.



眼科新進展

Recent Advances in Ophthalmology

莊金隆教授 Prof Kelvin Chong Kam-Lung

香港中文大學眼科及視覺科學學系助理教授

*Assistant Professor, Department of Ophthalmology & Visual Science,
The Chinese University of Hong Kong*

The speaker will discuss various surgical, medical and investigational advances in ophthalmology in the past 5 years including femtosecond laser assisted cataract, refractive (LASIK and SMILE) and corneal lamellar surgeries (DSAEK, DL), selective laser trabeculoplasty (SLT) for glaucoma patients, swept source optical coherence tomography and angiography for anterior, posterior segment and optic nerve head imaging, computer assisted and endoscopic navigation in orbital surgery, small-gauze self-sealing vitrectomy, topical and behavioural treatments to slow down progression of childhood myopia, intra-arterial chemotherapy for ocular and orbital tumors, intravitreal injection anti vascular endothelial growth factor (anti-VEGF) for different macular and retinal vascular disorders.



視網膜缺血及腦缺血相關性：從基礎到臨床，類固醇，
血管內皮細胞生長因子抗體，神經保護劑，電子眼及幹細胞
Retinal Ischemia & its Relevance to Brain Ischemia:
Bench to Clinical, Steroid, Anti-VEGF, Neuroprotectant,
Retinal Chip & Stem Cell

趙效明教授 Prof Chao Hsiao-Ming

台灣國立陽明大學醫學系及藥理所副教授；台灣振興醫院眼科部主任
Associate Professor, Institute of Pharmacology, School of Medicine,
National Yang-Ming University, Taipei, Taiwan;
Section Chief & Retina Specialist, Ophthalmology, Cheng Hsin General Hospital, Taipei, Taiwan

Retinal/brain ischemia plays a pivotal role in vision/life threatening retinal disorders, namely central retinal artery/vein occlusion (CRAO/CRVO), BRAO/BRVO, neovascular age related macular disease, diabetic retinopathy, defined retinal/brain ischemia disease associated macular/brain edema (ME/BE), glaucomatous optic neuropathy as well as stroke. The aim was to examine whether and how retinal/brain ischemia & ME/BE can be protected/cured by the following managements, for example steroid, anti-VEGF, neuroprotectant (herbal), retinal chip & stem cell. In addition, the active components of the traditional Chinese herbals might provide promising agents with novel neuroprotective mechanisms, namely the involvement of PKM2, demethylated RBP2, P-p38 MAPK, HIF1, heme oxygenase, MMP-9 & Bcl-2.

Keywords: retinal ischemia; brain ischemia; macular edema; brain edema; traditional Chinese herbal; steroid; anti-VEGF; retinal chip; stem cell; PKM2; RBP2; P-p38 MAPK; HIF1; heme oxygenase; MMP-9; Bcl-2.



內窺鏡手術的最新進展 Recent Advances in Endoscopic Procedures

張源斌教授 Prof Anthony Teoh Yuen-Bun

香港中文大學外科學系名譽臨床副教授及副顧問醫生

*Associate Consultant & Hon. Clinical Associate Professor, Department of Surgery,
The Chinese University of Hong Kong*

In recent years, tremendous advancements have occurred in the area of interventional endoscopy. New procedures are being developed and evolving from luminal to extra-luminal interventions. Traditional conditions that were once only managed by surgery, including gastrointestinal cancers, achalasia or acute cholecystitis, are now being treated by the endoscopic approach. Endoscopic retrograde cholangiopancreatography (ERCP), once considered the most challenging endoscopic procedure, is now overtaken by endoscopic submucosal dissection (ESD), per-oral endoscopic myotomy (POEM) and endoscopic ultrasound guided transluminal drainage procedures. The advantages of the endoscopic approach are the lack of external scars, minimal wound pain with hastened recovery. The aim of this lecture is thus, to provide an overview in the recent advances in endoscopic procedures.



介入性心臟手術 Interventional Cardiology

鄔揚正教授 Dr Eugene Wu Yeung-Ching

心臟專科醫生

香港心血管介入學會創會董事

Specialist in Cardiology

Founding Director of HKSTENT & Director of APCTO Club

In the past few years the landscape of interventional cardiology has undergone dramatic changes. The most remarkable changes come from the development of structural heart disease intervention. Clinical conditions which were previously treatable only by drug therapy (like AF associated CVA risks or inoperable mitral regurgitation) or very high risk surgery (like severe AS in the elderly) now have a minimally invasive option. Left Atrial Appendage Occlusion (LAAO) is a simple transvenous, transeptal procedure to place an occluder into the left atrial appendage where the majority of thrombus forms and can significantly reduce the risk of AF associated CVA. Mitraclip, is a clip like device which can be placed via transeptal technique to reduce mitral regurgitation in the severe MR patients. TAVI is a percutaneous aortic valve replacement that can now be placed via the femoral arteries to replace a severely stenotic aortic valve.

In the coronary area, the advance of bioabsorbable scaffolds instead of stents is also leading a revolution. This change will radically alter how we perform PCI as well as the lesion subsets that we can do. Finally, imaging with OCT has opened up incredible knowledge through excellent intracoronary imaging resolution and will gradually alter the way we perform routine PCI.

We look to the future of the development of these devices to a new era of interventional cardiology.



介入性肺部手術 Interventional Pulmonology

倪珍莉教授 Prof Jenny Ngai

香港中文大學內科及藥物治療學系呼吸系統科名譽臨床助理教授及副顧問醫生
*Associate Consultant & Hon. Clinical Assistant Professor, Division of Respiratory Medicine,
Department of Medicine & Therapeutics, The Chinese University of Hong Kong*

Interventional pulmonology is an emerging field aimed at using advanced, minimally invasive techniques to diagnose and treat different respiratory diseases including: lung cancer, mediastinal lymphadenopathy and pleural disease. Different areas of interventional pulmonology are discussed. These include

1. Endobronchial ultrasound for diagnosis and staging of lung cancer, diagnosis of mediastinum adenopathy
2. Radial probe endobronchial ultrasound for peripheral lung nodule
3. Electromagnetic navigation bronchoscopy for peripheral lung nodule
4. New therapeutic bronchoscopic procedure including endobronchial valve insertion for pneumothorax and lung volume reduction for COPD , bronchial thermoplasty for asthma
5. Pleuroscopy/ Medical thoracoscopy for undiagnosed pleural effusion and malignant pleural effusion
6. Indwelling pleural catheter for malignant pleural effusion

The field continues to push the leading edge of medical technology and new procedures allow for novel minimally invasive approaches to various disease. Patient can benefit from high efficacy and yet low risk procedure. Moreover, formal training is necessary to perform the advanced procedures. This need for advanced training has led to the need for standardization of training and the institution of a subspecialty board examination.



中醫藥治療足跟痛

Chinese Medicine Treatment of Heel Pain

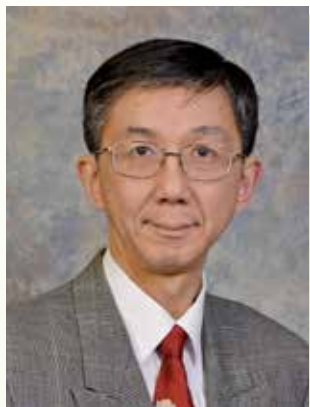
王彥暉教授 Prof Wang Yan-Hui

廈門大學醫學院副院長

Associate Dean of Medical College, Xiamen University, Xiamen, China

足跟一側或兩側疼痛，不紅不腫，行走不便，稱為腳跟痛，是中老年人的常見病多發病。多因蹠筋膜創傷性炎症、跟腱周圍炎、跟骨滑囊炎、跟骨骨刺及脂肪墊變性引起，發病與慢性勞損有關，往往發生在久立或行走工作者。

西醫學對此病的治療缺乏有效的根治手段，中醫學認為，足跟痛多屬本虛標實證，以腎精不足和痰濕瘀血阻滯所致，以補腎為主的治療方案，以補腎壯骨的補骨脂為主藥的處方，往往可以取到持久有效的結果，值得向醫學界推薦。



預防腦退化

Prevention of Dementia

郭志銳教授 Prof Timothy Kwok Chi-Yui

香港中文大學內科及藥物治療學系老人科教授

*Professor, Division of Geriatrics, Department of Medicine & Therapeutics,
The Chinese University of Hong Kong*

Dementia is a major cause of disability and dependency in old age. With population ageing worldwide, dementia has become a global health problem. Despite decades of intensive research, drug treatment for dementia has minor benefits. There is however epidemiological and randomized trial data to suggest that dementia can be prevented. Midlife obesity and depression are important risk factors which may be modifiable. Air pollution is increasingly recognized as a contributory cause of cognitive impairment in older people. Physical exercise, leisure activity, social engagement, mind body exercise, cognitive training and healthy diets prevent cognitive decline in older people, even in those with mild cognitive impairment. Moreover, their effects may be additive. The control of hypertension, diabetes mellitus and possibly hyperlipidemia is an important strategy against dementia. But in the presence of frailty, polypharmacy and restrictive diets may be counterproductive. Therefore, healthy lifestyle and optimal control of vascular risk factors can prevent dementia.

A Report on Dr Stanley Ho Medical Development Foundation Symposium and Health Education Programmes (2005-2015)

Foundation Symposium

Since the establishment of Dr Stanley Ho Medical Development Foundation Trust in 2005, we have scheduled the first foundation symposium on 8th January 2005, and thereafter in January of each year in past 11 years (Table 1). Various specialties and subspecialties of medicine were covered in the symposium lectures, including internal medicine and medical subspecialties, surgery and surgical subspecialties, orthopaedic surgery, obstetrics and gynaecology, paediatrics, pathology, psychiatry, clinical oncology, radiology and interventions, community medicine, public health and traditional Chinese medicine. Speakers invited were scholars or experts from Macau hospitals, The Chinese University of Hong Kong, Xiamen University, and Institutes in Beijing and Taiwan. The attendants were overwhelming, with 250 to 433 registered medical and paramedical professionals each year from Macau, Hong Kong and Pearl River Delta territories. Apart from updating the advances and providing CME of various medical fields, the symposium has provided a precious opportunity for academic exchange between professionals in Macau, Hong Kong, mainland China and Taiwan, and has become one of the biggest scientific events in academic contents and advances, as well as in attendance in Macau.

Table 1: Foundation Symposium 2005-2015

Year	Registered Attendants	Symposium Duration	Lectures	Speaker invited	Remarks
2005		1 day	6	Hong Kong, Macau	Inauguration of Foundation
2006		1 day	6	Hong Kong	
2007		2 days	10	Hong Kong	4 CME lectures
2008		1 day	6	Hong Kong	
2009	446	1 day	6	Hong Kong	
2010	515	1 day	8	Hong Kong	Inauguration of Healthland, & Healthland exhibition
2011	433	1 day	7	Hong Kong	Inauguration of MADA First MADA satellite scientific meeting
2012	261	1 day	11	Hong Kong, Xiamen, Beijing, Taiwan	
2013	300	2 days	9	Hong Kong, Xiamen, Beijing, Taiwan	
2014	387	2 days	16	Hong Kong, Xiamen, Taiwan	
2015	403	2 days	15	Hong Kong, Xiamen, Taiwan	

MADA: Macau Alzheimer's Disease Association

Two areas of health services were identified, namely Ageing and Dementia. These were incorporated as the main theme of the symposium programme in each year, and catalyzed the foundation of MADA supported by the Foundation in 2011.

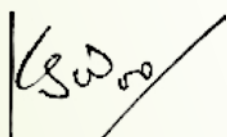
A Foundation webpage <http://drhomed.org.mo> has been established, summarizing the lecture notes, powerpoint slides and lecture videos of each year symposium.

Exhibition of Foundation-sponsored Projects

Posters were exhibited at the symposia for 3 research projects sponsored by the Foundation, including passive smoking, environmental smoke pollution and atherogenesis, HIV infection and genetic mutations in lung cancer in 2006, 2007 and 2012 respectively. Important findings and their implications were presented and shared.

Health Education Programmes

- (a) A dedicated Healthland section was established in 2009 and 2010, at the Foundation headquarter at Landmark, with interactive exhibition of eight disease areas, open to the school/ college students and general public. The first exhibition of the Healthland was scheduled in January 2010, together with the Foundation 2010 Symposium. We are in process of rolling out, in stages, the exhibition materials to the schools and general public.
- (b) Health Exhibition: The Foundation co-sponsored, together with the Medical Society of The Chinese University of Hong Kong, health exhibitions on cardiovascular, respiratory and eye diseases in 2010, 2014 and 2015 respectively. The responses from the general public and medical students were overwhelming.
- (c) Public Health Lectures
Public Lectures on Hypertension, Breast Cancer, Hostel Care for the Elderly, and health issues related to Air Pollution were scheduled in 2009, 2010 and 2015 respectively with overwhelming responses.



Prof Woo Kam Sang
Symposium Coordinator



Prof David Hui
Symposium Coordinator

Updates and listing of previous Speakers of Dr. Stanley Ho Medical Development Foundation Symposium

Listed in alphabetical order. Only major positions held by speaker are listed.

Professor Kai Ming Chan

Chair Professor, Chief of Service at the Department of Orthopaedics and Traumatology, Prince of Wales Hospital; Director of The Hong Kong Jockey Club Sports Medicine and Health Sciences Centre, Faculty of Medicine The Chinese University of Hong Kong
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Professor KM Chan is the Chair Professor of Department of Orthopaedics and Traumatology, The Chinese University of Hong Kong. He was past Chairman and Chief of Service. He is a pioneer in orthopaedic sport medicine, the founding president of the Hong Kong Association of Sport Medicine and Sport Science (HKASMSS), the first Asian to assume President of International Federation of Sports Medicine (FIMS). Professor Chan clinical work includes arthroscopic surgery of the knee and shoulder, tendinopathies and rehabilitation of sporting injuries. He is a past president of the Hong Kong Orthopaedic Association (HKOA), Hong Kong College of Orthopaedic Surgeon (HKCOS), Chinese Speaking Orthopaedic Society (CSOS).

Professor Francis KL Chan

Professor and Dean of the Faculty of Medicine, The Chinese University of Hong Kong
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Professor Francis K.L. Chan, JP, is the Dean of Faculty of Medicine and Choh-Ming Li Professor of Medicine and Therapeutics of The Chinese University of Hong Kong. He is a member of the Hong Kong Hospital Authority Board. With over 400 full scientific articles published in high impact journals, his pioneering research work in peptic ulcer disease associated with nonsteroidal anti-inflammatory drugs (NSAIDs) has revolutionized management guidelines worldwide. In recognition of his outstanding academic achievement, he received the degree of Doctor of Science from the Chinese University of Hong Kong in 2011.

Professor Lik Yuen Chan

Assistant Dean (External Affairs), Faculty of Medicine; Professor, Department of Medicine and Therapeutics; Head, Division of Gastroenterology and Hepatology; Director, Institute of Digestive Disease; Director, Centre for Liver Health, The Chinese University of Hong Kong
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Professor Stephen Lam Chan

Associate Professor, Department of Clinical Oncology, The Chinese University of Hong Kong
drchanlam@hotmail.com
Dr. Stephen L. Chan is the Associate Professor of the Department of Clinical Oncology, The Chinese University of Hong Kong. He graduated from the University of Hong

Kong in 2000 and obtained specialist qualification in Medical Oncology in 2007. Dr. Chan has been awarded the Gold Medal Prize for Dissertation in 2007 and Young Investigator award in 2008 by the Hong Kong college of Physician, and has published more than 70 publications including 3 first authored articles in Journal of Clinical Oncology as well as comments in the Lancet. Dr. Chan has been the principal investigator of a member of clinical trials including projects funded by General Research Fund, Innovation and Technology Fund and Hong Kong Health and Research Fund of Hong Kong Government.

Dr Anne Yin Yan Chan

Doctor, Division of Neurology, Department of Medicine and Therapeutics, The Chinese University of Hong Kong
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Professor Jian Chen

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Professor Jack CY Cheng

Chairman and Professor of Orthopaedics and Traumatology, The Chinese University of Hong Kong
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Professor Cheng is currently Chairman and Choh-Ming Li professor of the Department of Orthopaedics and Traumatology in CUHK Faculty of Medicine. Professor Cheng is a paediatric orthopaedics specialist. His research interests include etiology and etiopathogenesis of adolescent idiopathic scoliosis, congenital muscular torticollis, bone mineral research and biomaterial basic science and applied studies. He has published over 350 publications international journals, contributed to 19 book chapters and serves on the editorial boards of a number of international professional journals. He is a fellow and member of over 20 local and international professional and medical organizations.

Professor Gregory Cheng

Adjunct Distinguished Professor, Faculty of Health Sciences, University of Macau
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Professor Philip WY Chiu

Yeoh Ghim Seng Professor of Surgery, Department of Surgery, National University of Singapore, Professor, Division of Upper GI Surgery, Department of Surgery, Institute of Digestive Disease; Director of CUHK Jockey Club Minimal Invasive Surgical Skills Center; Director of CUHK Chow Yuk Ho Technology Center for Innovative Medicine

and Assistant Dean (External Affairs), Faculty of Medicine, The Chinese University of Hong Kong, Hong Kong
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Professor Chiu was the first to perform endoscopic submucosal dissection (ESD) for treatment of early GI cancers in Hong Kong. In 2010, he performed the first Per-oral Endoscopic Myotomy (P.O.E.M) in Hong Kong. His research interests include upper gastrointestinal bleeding, esophageal cancer and Minimally Invasive and Robotic esophagostomy, novel endoscopic technologies for diagnosis of early GI cancers, ESD and Novel endoscopic procedures as well as Natural Orifices Transluminal Endoscopic Surgery (Notes). Currently he is honorary treasurer of the College of Surgeons of Hong Kong. He has published more than 100 peer reviewed manuscripts and 4 book chapters. He has received numerous prestigious awards including State Scientific Technology and Progress Award from People's Republic of China in 2007 and 2nd class award in Technological Advancement, Ministry of Education of the People's Republic of China in 2011. Recently his research on POEM was awarded best of DDW 2011 and first prize of ASGE world cup of endoscopy 2012. He is currently associate editor for Digestive Endoscopy and co-editor of Endoscopy.

Professor Wen-Ta Chiu

President of Taipei Medical University;
Minister of Health and Welfare of the Republic of China
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Doctor Francis CC Chow

Consultant Physician & Honorary Associate Professor;
Head, Division of Endocrinology & Diabetes; Chief of Service, Department of Medicine & Therapeutics; Prince of Wales Hospital, The Chinese University of Hong Kong
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Dr. Francis CC Chow is a consultant endocrinologist & honorary associate professor at the Chinese University of Hong Kong. He is the Head of Division of Endocrinology & Diabetes, and the Chief of Service in Department of Medicine & Therapeutics, Prince of Wales Hospital since April 2004. He is also Co-Director of the CUHK-PWH Diabetes & Endocrine Centre – an International Diabetes Federation Centre of Education (IDFCE) since December 2011. He is currently president of the Hong Kong Association for the Study of Obesity. Over the years, he has been the leading author and co-author of over 180 publications of original research and review in peer-reviewed international journals.

Professor Tony Kwok-Hung Chung

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Doctor David Lok Kwan Dai

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Doctor Li Jun Ding

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MD, MPH; 1990, Graduated from Hengyang Medical College; Visiting Scholars: 1999 in Japan; 2009 in Canada; 2015 in USA; subspecialty: Anxiety disorders and OCD, CBT/DBT

Professor Shiuh Bin Fang

Director/Assistant Professor
Division of Pediatric Gastroenterology & Hepatology, Department of Pediatrics, Shuang Ho Hospital; Department of Pediatrics, School of Medicine, Taipei Medical University
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Professor Fang received his PhD in child Health, University College London and MD, Department of Medicine, Taipei Medical University. He is a specialist in Pediatric Gastroenterology, Hepatology and Nutrition.

Professor Tai Fai Fok

Pro-Vice-Chancellor and Vice-President,
Choh-Ming Li Professor of Paediatrics,
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Professor Fok Tai-fai is Pro-Vice-Chancellor and Choh-Ming Li Professor of Paediatrics at The Chinese University of Hong Kong. He graduated in Medicine from the University of Hong Kong and received his MD in CUHK. His research interest is in newborn care, especially the prevention and management of respiratory conditions, newborn infection and newborn growth. Professor Fok is dedicated to the development of medical education and research. He has received various awards for his outstanding teaching and research achievements. In recognition of his community contributions, he was appointed Justice of the Peace in 2006 and awarded the Silver Bauhinia Star in 2009 by the HKSAR Government.

Professor Suzanne Sut Ying C Ho

Founding Director, Centre of Research and Promotion of Women's Health; and Emeritus Professor of Public Health and Primary Care, The Chinese University of Hong Kong
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Suzanne C Ho is Emeritus Professor of Public Health and Primary Care, and Founding Director of the Centre of Research and Promotion of Women's Health of the Medical Faculty of the Chinese University of Hong Kong. Head of Epidemiology Division from 2007-2009, Professor Ho is also the Founding Director of the Postgraduate Programmes in Women's Health Studies, and Epidemiology and Biostatistics. Professor Ho's major research interests are in aging, nutritional epidemiology, women's health, particularly cardiovascular disease risks, osteoporosis, and breast cancer; nutritional epidemiology (focus on dietary soy intake and women's health). She has obtained many

competitive grants from the government as well as international research funds for studies in the above-mentioned areas. Her publications have totaled 21 books/book chapters, and over 241 scientific publications in refereed journals.

Professor Ellis Kam Lun Hon

Professor, Department of Paediatrics,
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ehon@hotmail.com

Dr Hon is a paediatric professor at the Chinese University of Hong Kong. He received undergraduate medical education at the University of Western Australia. He is a Fellow of the American Academy of Pediatrics (FAAP) and Fellow of Critical Care Medicine (FCCM). His Doctor of Medicine (MD) thesis is on the assessment of eczema. He has published more than 200 peer-reviewed scientific papers, books and book chapters; and his research interests include many paediatric issues. He has performed extensive research on topical emollients, antibiotic, corticosteroid, systemic immunotherapy, food avoidance and dietary supplementation, traditional Chinese medicine and bench research on eczema biomarkers, as well as many paediatric critical care issues (including SARS, respiratory infections, poisoning and injuries). Dr Hon is particular keen to education parents to dismiss a lot of myths and fallacies that hinder good child health and skin care in Hong Kong.

Professor David SC Hui

Director, Stanley Ho Centre for Emerging Infectious Diseases; Stanley Ho Professor of Respiratory Medicine; Professor and Head of Division of Respiratory Medicine, Prince of Wales Hospital, The Chinese University of Hong Kong dschui@cuhk.edu.hk

Professor Leung Kim Hung

Professor, Department of Orthopaedics & Traumatology, Faculty of Medicine, The Chinese University of Hong Kong leungkimhung@cuhk.edu.hk

Professor Alice Pik Shan Kong

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Dr Kong completed her training in General Medicine at Queen Elizabeth Hospital, Hong Kong. She had her overseas training as postdoctoral fellow at the Division of Endocrinology, Department of Medicine at University of California, San Diego, United States between 1998 and 1999. She became a Fellow of the Hong Kong Academy of Medicine in 2000, with accreditation in Advanced Internal Medicine, Endocrinology, Diabetes and Metabolism. She is also a Fellow of the Royal College of Physicians, Glasgow (2005) and a Fellow of the Royal College of Physicians, Edinburgh (2010).

Dr. Kong is the Steering Committee Member of Joint Asia Diabetes Evaluation (JADE) program. She is the vice-president of Hong Kong Association for the Study of Obesity (HKASO). Dr. Kong's research interests are diabetes mellitus, insulin resistance, and obesity, with particular focus on lifestyle factors and cardiovascular risk factors clustering in adults and adolescents. She is an invited reviewer for many local and international journals. She serves as associate editor in Primary Care Diabetes and editorial board member of Current Diabetes Reports and Clinical Diabetes and Endocrinology. She has presented at numerous local, regional and international meetings and has published over 170 articles in peer-reviewed journals.

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Professor Nelson Lee is the Head of Division of Infectious
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Kong College of Physicians. As an academic physician,
he is leading research, teaching, specialist training and
clinical service in infectious diseases. His research interests
are on emerging infections, including influenza, novel
coronaviruses, and all forms of severe pneumonia in the
hospitalized adults. A wide range of basic, translational
and cross-discipline researches have been conducted, with
emphasis on clinical management, disease transmission,
infection control, and immuno-pathogenesis. Professor Lee
has published over 230 research articles, book chapters

and conference papers, and received over 6800 citations
(Google Scholar; h-index 39), and multiple local and
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Professor Kwok-Sui Leung is a Chair Professor of Orthopaedics
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Prince of Wales Hospital, Hong Kong. Professor Leung is the
Founding Director of Orthopaedic Learning Centre of the
Chinese University where over 10,000 professionals were
trained. In 2000, he established the Community Fall and
Fracture Prevention Campaign. His major research programs
are Fragility Fracture, computer aided orthopaedic surgery, 3D
printing and personalized orthopaedic surgery, sarcopenia and
osteoporosis. He is the author of 4 books, editor of 14 books,
two theses, 38 book chapters, 220 papers in international
peer-reviewed journals. He holds 14 patents.

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Professor Leung is the Chairman and Professor of O&G
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of Obstetricians and Gynaecologists, and Treasurer of
Obstetrical and Gynaecological Society of Hong Kong.
His expertise is Fetal medicine, Perinatal medicine and
clinical genetics. He and his unit pioneered important
developments in Hong Kong including fetal surgery, first
trimester screening for Down syndrome, Fragile-X carrier
screening, expanded newborn screening and non-invasive
prenatal diagnosis. He has published > 220 papers in
international peer-reviewed journals and his H-index is 27.

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Professor Leung graduated from The Chinese University of
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in the Hospital for Sick Children in Toronto, Canada in
1997-1998. He was elected as an International Fellow of
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in 2011. Professor Leung is Secretary-General of the Asia
Pacific Association of Pediatric Allergy, Respiriology and
Immunology and Vice President of the Hong Kong Society
for Paediatric Immunology, Allergy and Infectious Diseases.
Professor Leung has published more than 290 refereed
journal articles and supervised one post-doctoral fellow,
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Dr. Li graduated from the University of Wales College of Medicine and received his paediatric training at King's College Hospital and Great Ormond Street Hospital, United Kingdom. He joined the Chinese University of Hong Kong as a lecturer in August 2001. His training took him back to the UK where he worked as a clinical research fellow at the Royal Brompton Hospital, London in 2002, under the guidance of Prof. Andy Bush. His clinical and research interest is in respiratory and sleep medicine.

Albert is currently the person-in-charge of the Respiratory and Sleep Medicine Service in the Department of Paediatrics, Prince of Wales Hospital. Academically, he is currently associate editor of the Hong Kong Journal of Paediatrics and Frontiers in Paediatric Pulmonology, member of the editorial board for Respirology and vice-president of the Asia Pacific Paediatric Sleep Alliance. He has published over 160 peer-reviewed articles. For 3 consecutive years, he was awarded "Best Clinical Teacher" by the medical faculty of CUHK.

Professor Shih Cheng Liao

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Dr. Shih-Cheng Liao graduated from Taipei Medical College (now Taipei Medical University) and received Ph.D. degree in epidemiology and preventive medicine from National Taiwan University. Dr. Liao's main clinical and academic interests include psychosomatic medicine, biological treatment of anxiety and depressive disorders, consultation-liaison psychiatry, and suicidology. He participates in the Taiwan Suicide Prevention Program since 2006 and has been the CEO of the Taiwan Suicide Prevention Center. He is now the council member of Taiwanese Society of Suicidology and executive council member of Taiwan Association Against Depression.

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Professor Dennis Lo received his Bachelor of Arts degree from the University of Cambridge and the Doctor of Medicine and Doctor of Philosophy degrees from the University of Oxford. In 1997, he discovered the presence of fetal DNA in maternal plasma. He has pioneered the performance of non-invasive prenatal testing of Down syndrome and other diseases. Professor Lo has been elected as a Fellow of the Royal Society, a Foreign Associate of the US National Academy of Sciences and a Fellow of the World Academy of Sciences. He received the King Faisal International Prize in Medicine in 2014.

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Professor Tony Mok is Chairman, Department of Clinical Oncology and Li Shu Fan Medical Foundation Named Professor of Clinical Oncology at the Chinese University of Hong Kong. His main research interest focuses on biomarker and molecular targeted therapy in lung cancer. He has led the IPASS, a landmark study that established the role of first-line gefitinib in patients with EGFR mutation. He has contributed to over 190 major international peer-reviewed journals, including the NEJM, Science, Lancet and JCO. He is an editor on Thoracic Oncology for JCO, Past President of IASLC, a member of the ASCO Publications Committee and Vice Secretary of the Chinese Society of Clinical Oncology (CSCO).

Professor Pak Cheung Ng

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Professor Ng graduated from The University, Dundee with distinction in Paediatrics in 1982. He joined the Medical College of St. Bartholomew's Hospital, University of London as Senior Lecturer and Honorary Consultant Neonatologist in 1991. Professor Ng returned to Hong Kong in 1993 and was recruited by The Chinese University of Hong Kong, where he subsequently appointed as Professor of Paediatrics. He was the President of the Hong Kong Neonatal Society (2013-2015), The Hong Kong Paediatric Society (2004-2006) and The Hong Kong College of Paediatricians (2009-2012). He

received the 'Honorary Life Member' award from The Hong Kong Paediatric Society in 2009 and the 'Outstanding Asian Paediatricians Award, 2012' by the Asian Pacific Pediatric Association (APPA) in 2012. As a neonatologist, he has published over 300 articles, and is a member of the editorial board for Neonatology, Seminars in Fetal and Neonatal Medicine and other Paediatric journals in Hong Kong and Mainland China. He has written many book chapters and edited one book. His research interest, includes biomarkers of neonatal sepsis and necrotising enterocolitis, the development and function of hypothalamic-pituitary-adrenal axis, and the use corticosteroids and pro-kinetics in preterm infants. Professor Ng has received many competitive grants, both locally and internationally, and donations for his neonatal research. He firmly believes that advances in neonatology can only be achieved through properly conducted basic science research and clinical trials.

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Siew Ng is Associate Professor at the Department of Medicine and Therapeutics, Chinese University of Hong Kong and Honorary Senior Lecturer at University of Melbourne. She graduated from St Bartholomew's and the Royal London School of Medicine and was awarded a PhD by Imperial College London in 2009. Her research focuses on inflammatory bowel diseases and colorectal cancer. She has published over 100 peer-reviewed articles and has lectured by invitation at over 200 national and international meetings. Dr Ng is currently President of the Hong Kong IBD Society, Management Committee of the international IBD Genetics Consortium, Deputy Secretary of the International Organization of Inflammatory Bowel Disease, World Gastroenterology Organization IBV Global Guidelines committee member and Research Methodology Committee. She received the Distinguished Research Paper Award for Young Investigators in two consecutive years and was bestowed the JGHF Emerging Leader Lectureship Award in 2014.

Professor Simon Siu Man Ng

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Prof. Simon Ng is currently Assistant Dean (Learning Experience) of the Faculty of Medicine, and Professor of the Division of Colorectal Surgery, CUHK. He is the Honorary Secretary of the Hong Kong Society for Coloproctology, a Council Member of the Hong Kong Society of Robotic Surgery, a Board Member of the Asia

Pacific Endo-Lap Surgery Group, and a Fellow of the American Society of Colon and Rectal Surgeons. Prof. Ng's main clinical and research interests are minimally invasive/robotic surgery and advanced endoscopic therapy for colorectal diseases, multimodality treatment for colorectal cancer, and enhanced recovery after colorectal surgery.

Professor Siu Kwan Ng

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Professor Poon is an active participant of college and society activities locally and internationally: he is currently a Council Member of the College of Surgeons of Hong Kong, President of the Academy of Multidisciplinary Neurotraumatology (AMN), Immediate Past President of the Eurasian Academy of Neurosurgery, Co-Chairman of the Committee of Neuro-rehab and Reconstructive Neurosurgery of WFNS, and Past-President of the Hong Kong Neurosurgical Society [1996-2000].

He has served the Editorial Boards of Acta Neurochirurgica [2001-2006], British Journal of Neurosurgery, Neurosurgery, Korean Journal of Neurosurgery, World Neurosurgery and Surgical Practice, and is author and co-author of >360 peer-reviewed articles. In January 2011, he received the State Scientific and Technological Progress Award (SSTPA) 2010 second-class for the research study entitled "Technology for the early diagnosis and prevention of secondary brain injury in the management of traumatic brain injury" jointly conducted by the Fourth Military Medical University of Xi'an and the Chinese University of Hong Kong. In 2015 collaborating with the same research team, we received a first class award from the Chinese Medical Association on acute stroke management.

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In addition to his presidency at the Chinese University of Hong Kong, Professor Joseph Sung is a renowned scientist in gastroenterology and was appointed Mok Hing Yiu Professor of Medicine in November 2007 in recognition of his significant contributions to the prevention and early diagnosis of gastroenterology cancers. Professor Sung's wide research interests include intestinal bleeding, Helicobacter Pylori, peptic ulcer, hepatitis B, and other cancers related to the digestive system. Professor Sung's extensive research and contributions to the advancement of medical sciences and academic development have been recognised with many awards locally and internationally.

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Prof Szeto is currently a professor of Department of Medicine and Therapeutics, The Chinese University of Hong Kong, and an honorary consultant physician of Prince of Wales Hospital, Hong Kong Hospital Authority. His research interests include peritoneal dialysis related infections and vascular disease of renal failure.

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Lai Shan Tam, MD, is division head and a professor in the Division of Rheumatology within the Department of Medicine and Therapeutics at the Chinese University of Hong Kong. Dr Tam is the first author or co-author of over 170 articles published in major rheumatology journals. Dr Tam is serving as the vice president of Asia Pacific League against Rheumatism (APLAR) since 2014 and also the president of the Hong Kong Society of Rheumatology from 2011 to 2014. Professor Tam serves on the editorial boards in a number of journals including Rheumatology and Scientific Reports. She is also the Associate Editor of International Journal of Rheumatic Disease.

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Andrew received his medical training at The University of the Witwatersrand, Johannesburg, South Africa. In 1985 he was responsible for establishing the Division of Otorhinolaryngology in the Department of Surgery at the Chinese University of Hong Kong, Stationed in the University's teaching hospital, the Prince of Wales Hospital in the New Territories of Hong Kong. The Division has evolved into an independent academic Department of Otorhinolaryngology, Head and Neck Surgery. Andrew has devoted himself to research, integrating academic and clinical experience, while promoting academic exchange and contributing to the regional and international arenas. He is an advocate in MIS techniques in ENT, particularly in endoscopic sinus surgery and lasers in the airway. Andrew is an Otolologist of international acclaim with an abiding interest in hearing restoration. He has played a vital leadership role in disseminating surgical expertise in otology. He is passionate about the integration of academic and clinical experience and is widely recognized for innovation in his field. Andrew has delivered numerous invited lectures in Otology and has published the two editions of the definitive work on "Nasopharyngeal Carcinoma", reflecting his board interest across the field of Otorhinolaryngology, Head and Neck Surgery.

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Professor Winnie Yeo graduated from King's College Hospital, University of London. She underwent postgraduate training in Addenbrooke's Hospital, Cambridge, and at King's College, Westminster and Royal Marsden Hospitals in London before returning to Hong Kong. She was the Chairman of the Medical Oncology Specialty of the Hong Kong College of Physicians between 2007-2013. She is currently a clinical professor of the Department of Clinical Oncology, Faculty of Medicine, Chinese University of Hong Kong. She has over 200 publications and her main research interests are management of patient with breast, liver and gastric cancer as well as hepatitis b virus-related complications.

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From 1984 to 2010 held the position of Consultant and Chief of Service in Tuberculosis and Chest Unit of Grantham Hospital, Hong Kong. From 2011/ 2012 onwards, appointed Honorary Clinical Professors of Department of Microbiology and Stanley Ho Centre for Emerging Infectious Diseases of The Chinese University of Hong Kong. From 2010 to 2014, was Scientific Advisor to the Pan-European Consortium for the study and management of drug-resistant tuberculosis. Also was Associate Editor for American Journal of Respiratory and Critical Care Medicine (2004-2009) and Editor-in-Chief for International Journal of Tuberculosis and Lung Disease (2011-2015).

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Professor Zheng received her MD from Nanjing University, China; postdoctoral and postgraduate clinical training in the United States of America. She is currently a Professor, and Vice President of Zhongshan Hospital, Xiamen University. She is a specialist in General Surgery and hepatobiliary and pancreatic surgery. She has an interests in surgery and basic research of liver cancer.

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His major research interest is in occupational and environmental epidemiology, especially occupational and environment causes of lung cancer and respiratory diseases.
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Updates and listing of projects sponsored by Dr Stanley Ho Medical Development Foundation

Brain and Mind Institute

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The Brain and Mind Institute (BMI) at The Chinese University Hong Kong is an interdisciplinary research hub for conducting basic and translational work that bridges the arts and sciences on the one hand, and targeting investigations from molecule to behavior on the other, to solve complex problems concerning language, cognition, learning and their neural and neurogenetic underpinnings.

KEY MILESTONES AND ACHIEVEMENTS

Events

In celebration of the launch of Brain and Mind Institute (BMI), the following series of events were held on 12 November 2015 at The Chinese University of Hong Kong.

- Opening Ceremony of the Brain and Mind Institute
- Inaugural Lecture of the Stanley Ho Professorship in Cognitive Neuroscience
- International Symposium on Cognitive and Developmental Neuroscience: From Molecule to Behaviour

13 November 2015 at the Stanley Ho Medical Development Foundation in Macau

- International Symposium on Cognitive and Developmental Neuroscience: From Molecule to Behaviour

Details and photos are available on
<http://bmi.cuhk.edu.hk/Opening2015/>

Research

Four multidisciplinary projects have become the first to receive research funds from BMI, pooling researchers and experts from a wide range of fields, including Linguistics, Otolaryngology, Obstetrics, Pediatrics, Psychology, Psychiatry, and Biomedical Sciences. With these new endeavors, BMI now has research projects in all four of its strategic research areas, namely:

- Optimizing language learning in early childhood
- Defining the broad autism phenotype in Chinese societies
- Enhancing treatments for dyslexia
- Identifying molecular mechanisms of neurodevelopment and neurodegeneration

Details are available on
<http://bmi.cuhk.edu.hk/funded.html>

大腦與認知研究所

香港中文大學大腦及認知研究所 (Brain and Mind Institute) 是一個跨學科的研究樞紐。透過進行基礎及轉化研究，研究所一方面致力於建立文科及科學之間的橋樑，另一方面以「從份子到行為」作為重心，進行相關研究，從而解決複雜的問題，包括語言、認知、學習以及這些行為背後的神經及神經基因學基礎。

大事記

為慶祝大腦及認知研究所的成立，我們於 2015 年 11 月 12 日假香港中文大學舉辦了

- 大腦及認知研究所開幕典禮
- 何鴻燊認知神經科學教授的就職演講
- 以「認知及發展神經科學：從份子到行為」為題的國際研討會

2015 年 11 月 13 日於澳門假何鴻燊博士醫療拓展基金會舉辦了

- 「認知及發展神經科學：從份子到行為」國際研討會

詳情及典禮照片可瀏覽
<http://bmi.cuhk.edu.hk/Opening2015/>

研究

在研究基金支持下，研究所鎖定了四個先行的跨學科研究計劃，匯聚了不同研究領域的科研人員，包括來自語言學、耳鼻喉科學、婦產科、兒科、心理學、精神病學和生物醫學科學的研究員和專家。在大家協力合作之下，研究所目前的研究計劃涵概了以下四個關鍵範疇：

- 優化童年初期的語言學習
- 定義華人社會的廣泛自閉症表現型
- 改善失語症的治療方法
- 找出神經發展和神經衰退的分子機制

詳情請瀏覽 <http://bmi.cuhk.edu.hk/funded.html>

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The major outbreak of SARS in 2003 and the subsequent re-emergence of avian influenza in 2004 caught worldwide attention to emerging infections with pandemic potential. In response, The Chinese University of Hong Kong established a centre for emerging infectious diseases in the same year to support our research activities in infectious diseases and preparedness for managing emerging infections. In 2006 and 2009, the centre received generous donation by the Dr Stanley Ho Medical Development Foundation in support



The naming ceremony of the "Stanley Ho Centre for Emerging Infectious Diseases", 16 Nov 2006

of our research activities and the centre has been renamed as the Stanley Ho Centre for Emerging Infectious Diseases since 2006 in appreciation of the enormous contribution by the

Dr Stanley Ho Medical Development Foundation.

KEY MILESTONES AND ACHIEVEMENTS

The contribution from the Foundation has enabled the Centre to make remarkable progress in academic research, organization of training, promotion of infectious disease preparedness, and the provision of advice on infectious disease control to local, regional and international authorities.

Expertise Team and Facilities in Infectious Diseases

The Centre has taken on a multi-disciplinary approach in response to infectious disease threats. Currently 6 academics and 24 staff members are affiliated with the Centre in different capacities. The main infections of interest are SARS and Middle East Respiratory Syndrome (MERS), influenza, HIV and co-infections, tuberculosis, and enteric infections. The areas of expertise include clinical management, epidemiology and molecular analyses. In 2007, the Centre's Emerging Infectious Disease Laboratory started operation, providing core facilities for research. In 2008, a designated clinical research space was granted to the Centre in support of studies in infectious diseases.

Scientific Symposia

A major highlight of the activities of the Centre is the Annual Scientific Symposium, which is a platform for health professionals and academics to update on knowledge and skills in infectious diseases prevention, treatment options and control. Every year, the symposium attracts over 250 participants from Hong Kong, Macau, Mainland China, as well as overseas. In March 2013, a special international conference was held to commemorate the major outbreak of SARS in Hong Kong a decade ago.

Building an Extensive Research Network

The Centre's researchers have so far been awarded 129

research grants, including 46 competitive grants (from Research Grant Council, AIDS Trust Fund and Health and Medical Research Fund (HMRF)), 18 grants under the HMRF's Commissioned Research Programme on Control of Infectious Diseases (Phase I-III) and 65 grants from various sources. Up to now, the research team has published over 500 peer-reviewed journal papers, delivered over 100 conference presentations and 50 scholarly books and chapters.

The Centre has established research collaborations with local, Mainland China and overseas institutions, with activities including academic exchange, joint grant applications, training and joint research projects. Locally, a series of studies have been developed with public hospitals, NGO and professional institutions in medicine, nursing, public health. In Jan 2007, a Memorandum of Understanding (MOU) was signed between the Centre and Liuzhou Centre for Diseases Control and Prevention of Guangxi Province. In April 2008, another MOU was signed with the Institute of Microbiology, Chinese Academy of Science. Besides, collaborative projects have been developed with universities and CDC in China on the following infections – EV71, HIV and influenza.

Professional and Public Education

Totally 22 research postgraduate students have graduated with PhD or MPhil under the supervision of Centre's academic staff. Besides, state-of-art lectures by invited speakers and short courses have been regularly organized for medical professionals. Over the last decade, training attachment has been provided to more than 20 young professionals/researchers of collaborating institutions.

In 2012, "Public Health Infectious Disease" was published as a textbook for the use of medical and public health students. In 2007, the Centre published Hong Kong's HIV Manual for the use of local medical professionals which was updated in 2013. The latter is composed of a web and an Apps version (Android and iOS). In 2007, a designated epidemiology website "SpatioEpi" (www.spatioepi.com) was set up to showcase maps on health and diseases, which has since become an education resource for secondary school students. An E-community Surveillance System (EcSS) was launched in 2011, allowing researchers of the Centre to



Inaugural Lecture by Prof. Shu Cheong David Hui, Stanley Ho Professor of Respiratory Medicine, 21 Nov 2011

monitor the pattern of influenza-like illnesses in Hong Kong.

Honours and Awards

In 2011, Weiming Fu, a PhD student, won the 1st Runner-up prize of Professor Charles K. Kao Student Creativity Awards. In the same year, Prof. David Shu-Cheong Hui delivered the Inaugural Lecture of Stanley Ho Professorship of Respiratory Medicine. In 2012, Prof. Hsiang-fu Kung was awarded 1st Class Award of the National Science & Technology Progress Award of China. In 2013, Prof. Shui Shan Lee received a Best Teacher Award by the Faculty of Medicine of The Chinese University of Hong Kong.

何鴻燊防治傳染病研究中心

2003 年香港爆發嚴重急性呼吸道綜合症 (SARS)，促使香港中文大學醫學院成立了防疫研究中心，加強傳染病的研究及支援防控工作。為答謝何鴻燊博士醫療拓展基金會的慷慨捐贈，於 2006 年命名為何鴻燊防治傳染病研究中心。

現時中心的主要研究項目包括 SARS、中東呼吸綜合症 (MERS)、流感、愛滋病毒與相關感染、結核病和腸道感染等。為加強本地、國內及全球對新興流行傳染

病的控制，中心每年舉辦國際科研會議，並建立良好的合作網絡。研究團隊至今已獲得 129 項研究經費，發表了 500 份期刊論文，超過 100 份會議論文和 50 個學術書籍和章節。教育方面，學術人員積極培訓研究生，為本科生和醫學生提供教學，並編制各種教學材料，舉辦短期課程、講座及培訓。中心將繼續肩負研究及教育的使命，並為預防將來可能再度出現的傳染病作好充分準備。

Advanced Robotics Initiatives

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- The Advanced Robotics Initiative was launched in the University of Hong Kong in late 2012 aiming at expanding robotics teaching and research in the Asian region.
- With the support from the Foundation, effort has been made to introduce how robotic technologies can be used in tackling grand challenges. We set our goal to cope with the healthcare needs of an aging population. Medical and surgical robotics has therefore become a focus of development.
- Dr. Ka-Wai Kwok and Dr. Zheng Wang are among others joining the Faculty in the past two years working on medical and surgical robotics.
- Dr. Kwok's research interests focus on developing various surgical robotic systems using medical imaging techniques. This line of study will enable various kinds of robotic systems to operate inside the bore of MRI scanner, opening a new dimension for other types of procedures, such as cardiac electrophysiology, prostate intervention, breast biopsy and stereotactic neurosurgery. Dr Kwok's research will enable doctors to see and operate inside a human body with small wounds.
- Dr. Zheng Wang's research on soft robotics opens another exciting frontier. One of his research areas focuses on wearable robotics which is highly relevant in daily life and valuable in improving the quality of living for people with disability. Dr. Wang's research takes a step further in using soft and flexible materials as components to perform the same functions of an exoskeleton. The prototype can look like a pair of trousers or an artificial arm in long-sleeve shirt that looks and moves naturally. The whole research is to tackle an integrated problem of sensing, actuation and control. Further advancement on this area can enhance a human user to carry out activities beyond their physical limitations, like carrying or lifting excessive load in disaster site.
- The potentials of robotics has quickly gained attention in the policy makers and interests in the industry. Delegations from the FDCT (O Fundo para o Desenvolvimento das Ciências e da Tecnologia), CAST (Chinese Association of Science and Technology), Financial Secretary Mr. John Tsang and ITB Secretary Mr. Nicholas Yang visited the Faculty to understand how latest technologies can offer solutions to the society.
- One major project in the Advanced Robotics Initiative was to take part in the DARPA Robotics Challenge in June 2015 in California. The Challenge was like Olympic Games in the robotics community where 23 world-leading teams from US, Italy, Germany, Japan and South Korea whose robots were to perform disaster relief work in the unstructured and hazardous environment. A team of over 10 Engineering students ranging from undergraduate to research postgraduate levels were sent to California to assist the core researchers. This was the largest student delegation that the Faculty had sent in recent years for an overseas competition.
- Another student team comprising 4 undergraduate students was formed and took part in the Amazon Picking Challenge (APC) in May 2015. The competition was to build a system to grab grocery items from a bookshelf and put them into a shopping bin. The purpose is to simulate a warehousing robot in recognizing and picking items. The APC has stirred much research interests in the community and potentials for putting robotic applications in warehouse management.
- The Foundation's interests and foresight in supporting robotics education and research is a strong boost to HKU. Facing the challenge of aging population, shrinking labour force, the pursuit on quality of work and safety, robotics is an important area in pushing engineering research to the next level.

高端機器人科研計劃

香港大學于 2012 年啟動高端機器人科研計劃，旨在亞洲率先開闢機器人科研領域。在基金會的資助下，研究團隊引入機器人技術來解決複雜問題，設定機器人輔助老齡化人口健康服務為目標，將機器人應用於醫療與外科手術作為一個主要研究內容。

郭博士的醫療研究團隊，主要研究內容為在醫學影像如核磁共振等的幫助下，利用機器人來協助微創手術，開闢新的多維醫療處理技術，如心臟電生理、前列腺干預手術、乳腺解剖以及立體定向神經外科等。王博士的研究團隊則主要集中于研究可穿戴輕便機

器人的開發，旨在提高殘疾人的日常生活質量。他們通過研究使用柔軟輕便的材料才替代笨重的機器人骨架，得以實現機器人更多的負載運動功能。

研究計劃得到了社會諸多的關注，來自澳門科學技術發展基金會以及中國科學技術協會等代表們興致勃勃參觀了本研究中心。基金會的資助和遠見促進了香港大學對機器人的教學和研究，在面臨人口老齡化，勞動力縮減以及追求工作質量的挑戰下，機器人研究將工程研究帶入一個新的台階。

Research on humanoid robots – Atlas robot in HKU



Members of FDCT and Dr. Stanley Ho Medical Development Foundation standing by a humanoid robot named Atlas



Dr Ma, Mr Huen and other members in discussion with Professor Norman Tien on expanding robotics learning and research in universities.



Professor Norman Tien explaining to visitors the rising needs of robots in the economy



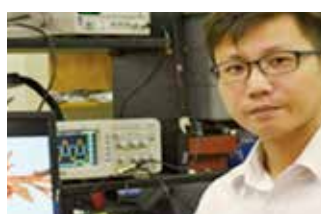
Dr Zheng Wang talking about huge potentials of wearable soft robots to FDCT members



Research students in Dr. Zheng Wang's soft robotics team



Ms. Ziyan Guo, a PhD student in Dr. Ka-Wai Kwok's team explaining to the visitors the limitations of Da Vinci and potentials of snake robot in surgery



Dr. Ka-Wai Kwok in his lab talking about the use of robots in minimally-invasive surgery

DARPA Robotics Challenge in Los Angeles in June 2015



Students and coaching teacher posing with the robot arm before the Amazon Picking Challenge. The soft robot hand (i.e. the gripper) is made by Dr. Zheng Wang's research team



Atlas ready for the DARPA Robotics Grand Challenge



Students and teachers working in the backstage of DARPA Robotics Challenge



Students showing the muscle-controlled robot to visitors in the exhibition in California



Team HKU's UR5 competing in Amazon Picking Challenge (APC) in Seattle in May 2015

澳門失智症協會

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