



School of Biomedical Sciences

Annual Report 2009 - 2010



香港中文大學
The Chinese University of Hong Kong

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Wai-Yee CHAN, Ph.D.

Professor of Biomedical Sciences
Director, School of Biomedical Sciences
The Chinese University of Hong Kong

The year 2009 was an epoch-making year for the Faculty of Medicine of The Chinese University of Hong Kong (CUHK). On 1 June 2009, the School of Biomedical Sciences (SBS) was established through the re-organization of the four pre-clinical science Departments of Anatomy, Biochemistry (Medicine), Pharmacology and Physiology. I am most delighted to share with you the fruits borne over the first year of the School (from 1 June 2009 to 30 June 2010) through this new publication, *SBS Annual Report 2009-2010*.

Since the formation of the School, substantial efforts and resources have been devoted to facilitate interdisciplinary collaboration and promote research excellence. A research theme-based model was adopted in the organization of the School, and different core laboratories were established. Clinical colleagues were recruited to join the School as Associate Members. The first Research Day of the School was organized in which all members, as well as some Associate Members, presented their research. The first pilot study collaborative grant funded solely by the School was given to a team of investigators from the School.... The list can go on and on.

Similarly, we have placed great emphasis on the provision of quality teaching and learning environment to our undergraduate and graduate students. With the consolidation of teaching manpower, synergies in undergraduate and graduate teaching have been made possible. A Teaching and Learning (T&L) Unit was formed in last October to promote teaching and learning-related research within the School and to prepare for the introduction of the 3+3+4 curriculum in 2012.

To promote international collaboration and broaden the outlook of our students, the School has signed Memoranda of Understanding (MOU) with a number of prestigious higher education and research institutions in the mainland and overseas. These agreements offer more opportunities for the exchange of academic personnel and students as well as research collaborations.

We envisage that our second year will be more challenging yet promising as we will fully engage ourselves in various ongoing and new projects essential

for the advancement of the School in the future. These initiatives include the drawing up of our School's *Strategic Plan*, preparation for relocation of the whole School in early 2012, introduction of a merit-based assessment system for our teaching staff, the possible development of a new undergraduate programme in Biomedical Sciences, to name just a few.

Let me take this opportunity to extend my heartfelt gratitude for the unfailing support from the University and the Faculty without which our School would not have successfully come into being. I am particularly indebted to Dean Tai-Fai Fok for his stern support since the inception of the School. I am also deeply grateful to our Associate Directors (Professors Woody Chan, Chi-Hin Cho, Kwok-Pui Fung and Michael Tam); the Chiefs of the five Thematic Research Programs (Professors Franky Chan, Christopher Cheng, Yu Huang, Gang Li and David Yew); Prof. Simon Au, Head of the T&L Unit; Prof. Kenneth Lee, Managing Director of Core Labs; Prof. Wing-Tai Cheung, Chair of the Safety and Building Management Committee, and Mr. Eugene Wong, Safety and Building Management Coordinator, for their indispensable roles and great assistance in bringing our School, just within a year, into a thriving entity. Without them, the list of all the accomplishments in this publication would have been impossible. I am particularly indebted to Mr. Chi-Ho Chan, School Manager, for working with me closely to face all challenges and to deal with all problems from day 1 of the School. Last but not the least, I must thank Prof. Kwok-Pui Fung and Prof. Helen Wise for serving on the editorial board as well as Mr. Chi-Ho Chan again, and his team members Miss Stephanie Yeung and Miss Willy Chan, for their dedicated effort and excellent work in making our very first *Annual Report* a reality.

I trust this *Annual Report* will not only help you understand our School from a wider perspective but also strengthen our connections in the long run. If you need more information or have any suggestions, please write to us at sbs.med@cuhk.edu.hk.



“Biomedical Sciences” was identified as one of the five Focused Areas of Research in the *Strategic Plan 2006* of CUHK. Against this background the School of Biomedical Sciences (SBS) was officially formed under the Faculty of Medicine in June 2009 through merging the pre-clinical science Departments of Anatomy, Biochemistry (Medicine), Pharmacology and Physiology.

Our Missions

Under the leadership of Prof. Wai-Yee Chan, Professor of Biomedical Sciences and the Founding Director of the School of Biomedical Sciences, the School undertakes the following missions:

- ◆ To promote cutting-edge biomedical research through introduction of innovative technologies and collaborations among basic scientists of different disciplines.
- ◆ To facilitate translational research by providing platforms that will enhance interdisciplinary collaboration among basic science investigators and clinicians.
- ◆ To generate synergies in team teaching at both undergraduate and postgraduate levels.
- ◆ To nurture the next generation of researchers and physician scientists in Hong Kong, China, Asia and around the world.
- ◆ To become a world-recognized leader in selected research areas with particular relevance to Hong Kong and China.

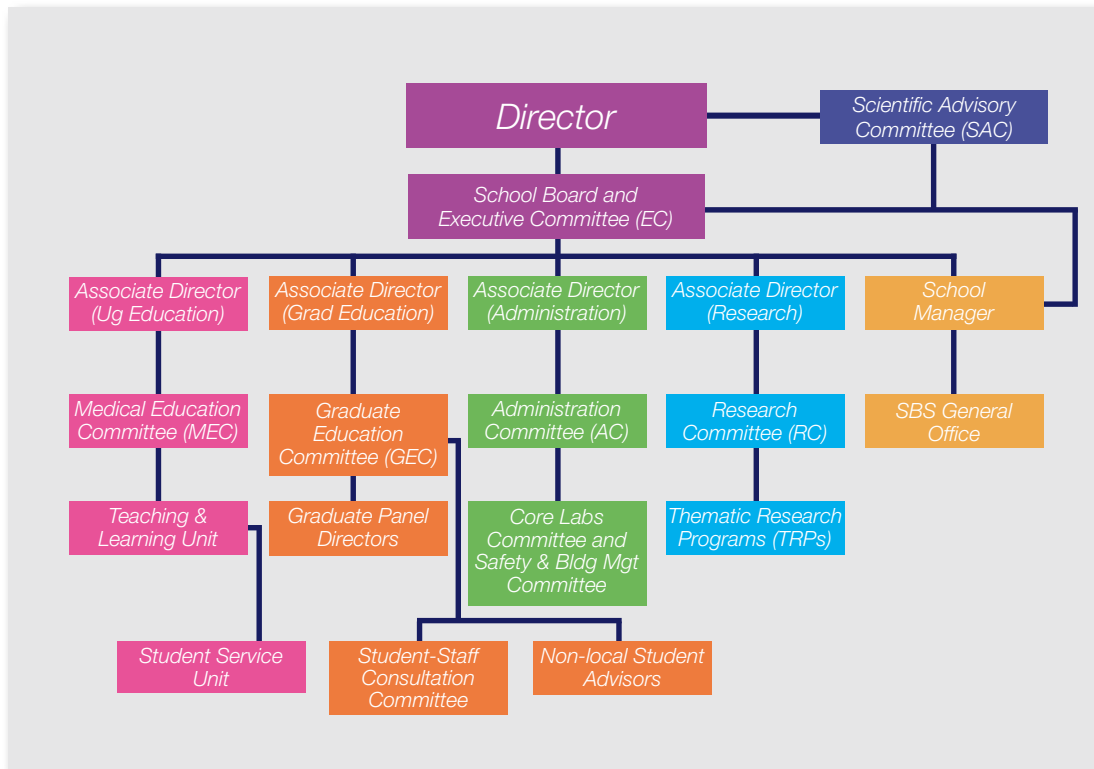
Our Vision

To nurture physicians and other healthcare workers who are abreast of current biomedical advances and to encourage scientific investigators who have the ability to do cutting-edge research that will lead to alleviation of human suffering.



Governance and Organization

The organization of the School can be summed up in the following chart:



The four Associate Directors and the School Manager assist the Director in overseeing the policy making and daily operation of the different domains undertaken by the School. The broad division of work among them is as follows:

- ◆ Associate Director (Undergraduate Education): Overall administration of policies (including teaching assignment, time tabling and student assessments) relating to all undergraduate teaching of medical and service courses, and coordination with the Teaching and Learning Unit in monitoring and promoting teaching and learning quality.
- ◆ Associate Director (Graduate Education): Overall administration of graduate education-related policies (including student assessments), the Graduate Division of Biomedical Sciences, and the Articulated MPhil-PhD Programme.
- ◆ Associate Director (Administration): Overall administration of academic and teaching staff, and of policies related to core labs and safety and building management bearing impacts on research, graduate and undergraduate teaching.
- ◆ Associate Director (Research): Overall administration of research-related policies and projects, and coordination of the five Thematic Research Programs (TRPs).
- ◆ School Manager: Overall administration of non-teaching staff and of policies related to budget, personnel and space, and the provision of secretarial support to School-level committees such as the Scientific Advisory Committee, School Board and Executive Committee.

Scientific Advisory Committee

A Scientific Advisory Committee has been formed to advise the School Director on areas of strategic importance to the future development of the School, including and not limited to School policies, scientific directions, missions and the performance of individual TRPs. The current membership of the Scientific Advisory Committee includes:

Chairperson

Dr. Owen M. Rennert, National Institutes of Health, U.S.A. (1st from right)

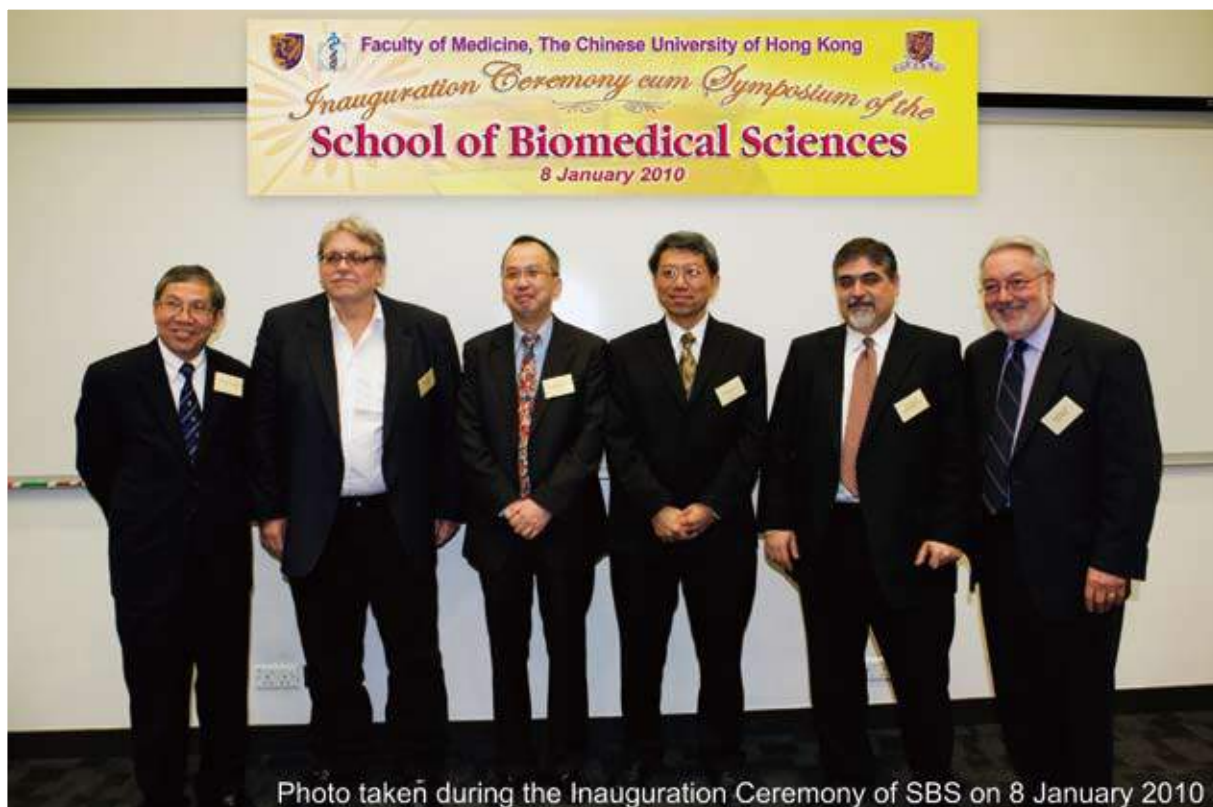
Members

Dr. Ping-Yee Law, University of Minnesota, U.S.A. (3rd from left)

Dr. James R. Lupski, Baylor College of Medicine, U.S.A. (2nd from left)

Dr. Vassilios Papadopoulos, McGill University Health Centre, Canada (2nd from right)

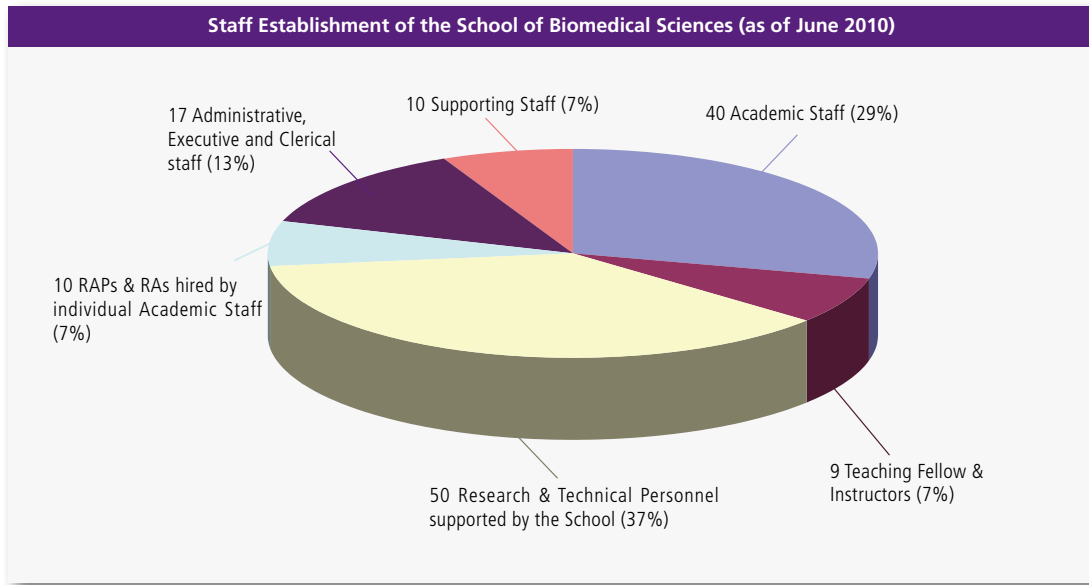
Dr. Rocky S. Tuan, University of Pittsburgh School of Medicine, U.S.A. (3rd from right)



After its first visit to the School in early January 2010, the Scientific Advisory Committee made a set of invaluable recommendations essential for the healthy growth of the School in the next couple of years. It is expected that the Committee will pay its second visit to the School in the first quarter of 2011.

Staff Establishment

As of June 2010, we have a total of 136 staff members in the School of Biomedical Sciences; distributed as follows:



Among the 40 academic staff, 24 of them are at the rank of Professor, 9 of them are Associate Professors, 5 of them are Assistant Professors and the remaining two are Research Assistant Professors. The research interests and selected publication lists of our academic staff can be found at <http://www.sbs.cuhk.edu.hk/StaffList.asp>.



Photo taken on SBS Retreat Day on 14 December 2009

New Faces

A total of 7 new academic, teaching and administrative staff members joined the School between 1 June 2009 and 30 June 2010; they include:



Prof. Wai-Yee Chan
Professor of Biomedical
Sciences and Director

Prof. Wai-Yee Chan was Professor of Pediatrics, Biochemistry, Molecular and Cell Biology, Georgetown University School of Medicine and Head and Principal Investigator of the Section on Developmental Genomics, National Institute of Child Health and Human Development, National Institutes of Health, U.S.A., before taking up his Directorship at the School of Biomedical Sciences.

Prof. Hsiang-Fu Kung, Professor of Virology, Stanley Ho Centre for Emerging Infectious Diseases, The Chinese University of Hong Kong, is a world renowned scientist in molecular genetics, molecular oncology and virology. He was awarded the NIH Merit Award in 1998 during his tenure as Chief, Laboratory of Biochemical Biology, NCI, National Institutes of Health, U.S.A., and elected as a Member of the Chinese Academy of Sciences in 1999. Prof. Kung has contributed extensively to the Chinese scientific community as a member of Advisory Committees in many programmes.



Prof. Hsiang-Fu Kung
Professor of Virology



Prof. Yangchao Chen
Assistant Professor

Prof. Yangchao Chen received his postdoctoral training in the University of Washington, Seattle. He was Research Assistant Professor, then Assistant Professor at the Department of Medicine and Therapeutics, The Chinese University of Hong Kong before joining the School of Biomedical Sciences as Assistant Professor. Prof. Chen is now a member of the Cancer and Inflammation Program in the School.

“Theme based research program will strengthen the collaboration between investigators with similar scientific interests and complementary expertise. There are so many excellent investigators in our School. It is my great honor to join this dynamic School.”

Prof. King-Lun Mak, Kingston was a research fellow at the Genetic Disease Research Branch, National Human Genome Research Institute, National Institutes of Health, U.S.A., before joining the School of Biomedical Sciences as Assistant Professor. He is now a member of the Stem Cell and Regeneration Program in the School.



Prof. Kingston Mak
Assistant Professor



Prof. Chao Wan
Assistant Professor

Prof. Chao Wan was an Instructor of Pathology in the School of Medicine, University of Alabama at Birmingham, and an Instructor of Orthopaedics in Johns Hopkins University School of Medicine, U.S.A., before joining the School of Biomedical Sciences as Assistant Professor. He is now a member of the Stem Cell and Regeneration Program in the School.

“The Thematic Research Programs (TRPs) established in SBS, and the collaborative academic links between CUHK and the local and mainland institutions provide a unique platform for promoting medical research and education.”

Dr. Shi-Ying Lam, Joyce, an alumna of the Department of Biology, recently joined the Teaching and Learning Unit of the School as Instructor after obtaining her PhD degree from the University of Cambridge, U.K. She is mainly responsible for providing anatomy teaching to both medical and non-medical students.



Dr. Shi-Ying Lam, Joyce
Instructor II



Mr. Chi-Ho Chan
School Manager

Prior to joining the School, Mr. Chi-Ho Chan served at the Hong Kong Institute of Education, Li Ka Shing Faculty of Medicine of the University of Hong Kong, and Faculty of Business Administration of The Chinese University of Hong Kong.

To promote collegial relationships, mutual understanding and effective communication among School members, a total of five staff gatherings were arranged between 1 June 2009 and 30 June 2010: two were for academic and teaching staff, one was for executive and clerical staff, one was for technical and supporting staff and the remaining one was the Christmas Party 2009 for all School members, including our postgraduate students. In addition, the first SBS Retreat and the Inaugural Dinner were held on 14 December 2009 and 8 January 2010, respectively, during which clinical Associate Members were invited to attend.

In order to help the newly-recruited junior faculty to adapt to the School and University culture and environment, the corresponding Theme Chiefs were invited to serve as “mentors” for these new faculty. Also, Prof. Chao Wan was delegated to organize a joint “journal club” for all new investigators and their laboratory personnel.

Calendar of Events

The School has organized a number of events over the past year, the major ones being: (1) the SBS Logo Design Competition; (2) the SBS Retreat 2009; (3) the Inauguration Ceremony cum Symposium; (4) a visit by the University Grants Committee (UGC); and (5) a visit by the Research Grants Council (RGC).

SBS Logo Design Competition (October - November 2009)

A total of 29 entries were received for the SBS Logo Design Competition. Awards were presented to the winners during the School's Inauguration Ceremony cum Symposium held on 8 January 2010. The awardees were:

Champion:



Miss Kit-Ting Wong (BPharm major)



The winning logo

Honorable Mentions:



Mr. Tak-Ming Chan (PhD in Computer Science & Engineering)



Group photo with Adjudication Panel members, including Prof. Jenny So (6th from left), Professor of Fine Arts and the former Chairperson of the Department of Fine Arts



Mr. Yu-Hin Li (BBA-JD major)

SBS Retreat 2009 (December 2009)

On 14 December 2009, our School held its first Retreat at The Salisbury – YMCA of Hong Kong, Tsimshatsui. Over 50 participants, including our academic and teaching staff and Associate Members from clinical departments, joined the event. Pro-Vice Chancellors Prof. Kenneth Young and Prof. Henry Wong, and Dean of Medicine, Prof. Tai-Fai Fok, were also present. They shared with us their insights on the future development of the School. Participants exchanged views and made suggestions on various core areas of the School including research (collaboration, infrastructure and future directions), teaching and learning (at the undergraduate and graduate levels), relocation, and the public image of the School.



Participants involved in parallel discussions



Sharing by group representatives after parallel discussions

Inauguration Ceremony cum Symposium (January 2010)

The Inauguration Ceremony of the School of Biomedical Sciences was held in the morning of 8 January 2010 at Teaching Complex West (TCW), CUHK. The Ceremony was followed in the afternoon by a scientific symposium highlighting various aspects of biomedical science. The Inauguration Ceremony was officiated by Prof. Benjamin Wah, Acting Vice-Chancellor and Provost, CUHK; Prof. Tai-Fai Fok, Dean of Medicine; Dr. Owen M. Rennert, Chairperson of the Scientific Advisory Committee of School of Biomedical Sciences; Dr. Ping-Yee Law, Dr. Vassilios Papadopoulos, Dr. James Lupski and Dr. Rocky Tuan, members of the Scientific Advisory Committee, and Prof. Wai-Yee Chan, Director, School of Biomedical Sciences.



(From left) Prof. Hoi-Sing Kwok, Chair Professor, Department of Electronic and Computer Engineering, HKUST; Prof. Wai-Yee Chan; Prof. Benjamin Wah, Acting Vice-Chancellor and Provost, CUHK; Prof. Vincent Lee, Director, School of Pharmacy, CUHK; Prof. Tong F. Chan, President, HKUST; Prof. Tai-Fai Fok, Dean of Medicine, CUHK, and Prof. Rocky Tuan, member of SBS Scientific Advisory Committee



Plaque unveiling by officiating guests



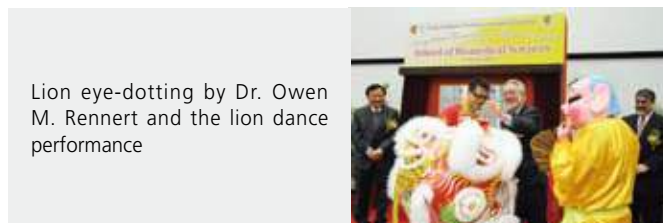
Other distinguished guests included The Honorable Mr. Edward Yau, JP, Secretary for the Environment, HKSAR Government (first row, 2nd from right); Prof. Tony F. Chan, President, HKUST (first row, 3rd from right); Prof. Timothy W. Tong, President, PolyU (first row, 3rd from left); and Ms. Margaret Fong, JP, Deputy Executive Director, Hong Kong Trade Development Council (first row, 2nd from left)



(From left) Prof. Wai-Yee Chan; Prof. Tai-Fai Fok, and Prof. David Yew at the press conference held prior to the Inauguration Ceremony



(From left) The Honorable Mr. Edward Yau, JP; Prof. Wai-Yee Chan, and Ms. Margaret Fong, JP



Lion eye-dotting by Dr. Owen M. Rennert and the lion dance performance



At the Symposium held in the afternoon, four members of the Scientific Advisory Committee shared their research and perspectives in biomedical science with us; topics and speakers were:



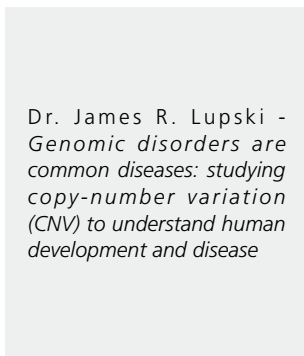
Dr. Vassilios Papadopoulos - *Cholesterol transport in steroid biosynthesis: mechanisms and function in health and disease*



Dr. Rocky S. Tuan - *Adult stem cells and nanomaterials in skeletal tissue engineering and regeneration*



Dr. Ping-Yee Law - *Mechanism of GPCR biased agonism and consequences*



Dr. James R. Lupski - *Genomic disorders are common diseases: studying copy-number variation (CNV) to understand human development and disease*



Visit of the University Grants Committee (UGC) (April 2010)

Five UGC members visited our School on 21 April 2010: Mrs. Pamela W. Chan, Former Chief Executive, Consumer Council; Prof. Willard Fee, Stanford University Medical Centre; Prof. Richard Y. Ho, Professor (Chair) of Finance, City University of Hong Kong; Prof. Yuk-Shan Wong, Vice-President for Administration and Business, the Hong Kong University of Science and Technology, and Prof. Fujia Yang, Chancellor, University of Nottingham. After receiving an overview introduction of the School by Prof. Wai-Yee Chan, the UGC delegates toured the Macromolecular and Microarray Core Laboratory, the Microscopy and Imaging Core Laboratory, and the teaching facilities at the School.

Visit of the Research Grants Council (RGC) (June 2010)

On 17 June 2010, a sub-group of RGC and Panel members visited our School. They included Prof. Anne Cooke (Convenor and RGC member); Prof. Wing-Hung Wong and Prof. Rudolf Wu (RGC members), and Prof. Kai-Nan An, Prof. Rudolf Bauer, Prof. Chih-Chang Chu, Prof. David Tuan-Hua Ho and Prof. Roger H. Reeves (Biology and Medicine Panel members). During the visit, the sub-group members had a meeting with the School Director, Associate Director (Research), Associate Director (Administration) and the five Theme Chiefs, followed by a tour of the Macromolecular and Microarray Core Laboratory. After the laboratory tour, the RGC members visited a poster session showcasing over 30 RGC-funded research projects currently undertaken by our School investigators.



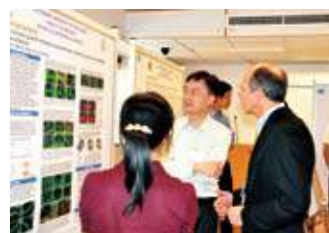
(From left) Prof. Kwok-Pui Fung; Prof. Rudolf Wu; Prof. Rudolf Bauer; Prof. Kai-Nan An; Prof. Chih-Chang Chu; Prof. Anne Cooke; Prof. Roger H. Reeves; Prof. Wing-Hung Wong; Prof. Wai-Yee Chan; Prof. Jack Cheng; Mr. Anthony Chan (Assistant Secretary-General (2), UGC) and Prof. Christopher Cheng



(From left) Prof. Anne Cooke; Prof. Wai-Yee Chan and Prof. Rudolf Bauer



Prof. Kwok-Pui Fung (in the middle) and Prof. Rudolf Bauer (1st from right)



Prof. Sun-On Chan, Hector (in the middle) and Prof. Roger H. Reeves (1st from right)



Prof. Helen Wise (in the middle) and Prof. Chih-Chang Chu (1st from right)



Prof. Tai-Fai Fok, Dean of Medicine, speaking at the opening ceremony of the SBS Research Day 2010

SBS Research Day 2010 (June 2010)

The first SBS Research Day was held on 15 June 2010 at Mong Man Wai Building, CUHK. Details of this event can be found in the subsequent section "Research Excellence".

Miscellaneous events

In addition to the special events listed above, a total of 39 theme-based seminars and 115 graduate seminars were organized since the formation of the School up until 30 June 2010. Details on the theme-based seminars are available in the subsequent section "Academic Links and Scholarly Exchange".

Being the first of its kind in Hong Kong, the School has adopted a research theme-based approach as its operational model. A Research Committee chaired by Prof. Chi-Hin Cho, Associate Director (Research), oversees and implements research-related policies and initiatives of the School. In particular, five Thematic Research Programs (TRPs), namely, Cancer and Inflammation (Chief: Prof. Leung Chan, Franky); Neuro-degeneration, -development and Repair (Chief: Prof. Tai-Wai Yew, David); Reproduction, Development and Endocrinology (Chief: Prof. Hon-Ki Cheng, Christopher); Stem Cell and Regeneration (Chief: Prof. Gang Li); and Vascular and Metabolic Biology (Chief: Prof. Yu Huang), were formed to promote advancement in a number of specialized research areas bearing strategic importance to the long-term development of the School.

Major Achievements in 2009-2010

The School has taken the following initiatives over the past year to enhance our investigators' advancement in their chosen fields of research and to facilitate interdisciplinary collaborations:

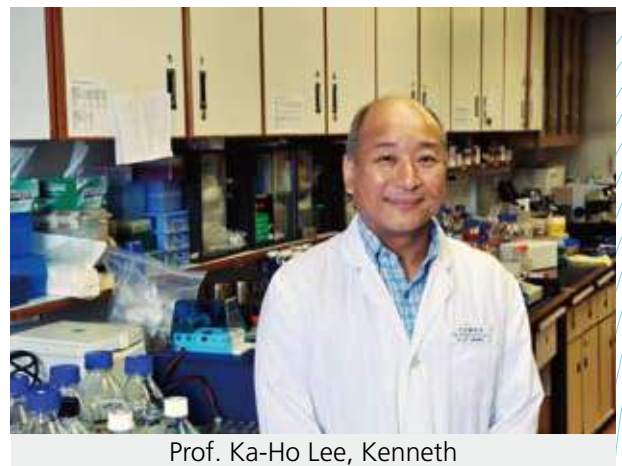
- ◆ Following the formation of the five TRPs, investigators with similar scientific interests and clinical background within and outside the Faculty of Medicine were invited to join one of the TRPs as Associate Members. As of 30 June 2010, a total of 45 Associate Members* were appointed to the five TRPs. In addition, through ongoing recruitment of new faculty with appropriate and complementary research expertise, a critical mass with new momentums in research will be fostered within the School to undertake bigger and more ambitious projects of local, regional and global impact. (*See Appendix 1 for the list of Associate Members)
- ◆ Each TRP was provided with some funding to support its theme-based activities. For example, two scientific retreats were organized by the Cancer and Inflammation Program and the Neuro-degeneration, -development and Repair Program on 3 August and 13 November 2009, respectively; a workshop on Microarray application in biomedical research was arranged by the Reproduction, Development and Endocrinology Program on 5 February 2010.



Participation of Associate Members in School-level or theme-based events

- ◆ A budget for a competitive-based seed grant was set aside to support theme-based collaborative projects. Through rigorous internal and external reviews, a one-year pilot study of a research project was successfully funded last year. This project is led by Prof. Po-Sing Leung and Prof. Woody Chan as the Principal Investigators with participation of Prof. Ronald Wang, Associate Member of Neuro-degeneration, -development and Repair Program.
- ◆ At the individual level, considerable resources were set aside to facilitate the work of all investigators in the School. For example, each investigator is provided with a research personnel, yearly research funding, and subsidy for supervising each research postgraduate student.
- ◆ The School organized its first annual SBS Research Day on 15 June 2010. This served as an interactive platform for our investigators to review their research over the past year and to share their findings with other School members and Associate Members. Most importantly, the event aims to extend our effort in promoting active research collaboration between our investigators and Associate Members. Details of this activity are set out in the latter part of this section.
- ◆ Apart from collaboration with clinical colleagues of the Faculty of Medicine, our School is also committed to cross-institutional collaborations. Through joint research projects with other tertiary institutions, a more active and interactive research community is expected to be formed in Hong Kong. For example, a visit led by Prof. Wai-Yee Chan was paid to the Departments of Biochemistry and Biology of the Hong Kong University of Science and Technology (HKUST) on 1 April 2010 to explore possible collaboration opportunities.
- ◆ The establishment of the four Core Laboratories, with installation of cutting-edge equipment, serves as an extension of the research laboratories of individual investigators and, in the long run, as a technology referral centre. Additional details of these Core Laboratories are covered in the last part of this section.

“We aim to cultivate students that can think innovatively and apply their biomedical science knowledge to serve and improve the lives of our Hong Kong community.”



Prof. Ka-Ho Lee, Kenneth

SBS Research Day 2010

Officiated by Prof. Tai-Fai Fok, Dean of Medicine, and Prof. Wai-Yee Chan, the first annual SBS Research Day was held on 15 June 2010. The event was well attended with more than 250 participants including investigators, research personnel, Associate Members, and students from the School, along with guests from HKUST and the Hong Kong Polytechnic University. There were 12 scientific sessions and over 30 RGC-funded projects at the School were showcased in a poster session.

Theme-based discussions between our investigators and Associate Members on the upcoming RGC General Research Fund (GRF) submissions, and other research grants for 2011-12 and beyond, wrapped up a very successful Research Day for the School. The active participation and fruitful discussions throughout reflected the fact that the event was well received by the participants. The corresponding programme and abstract book for this event are available at http://www.sbs.cuhk.edu.hk/Events_Research_Day15Jun10.asp.



(From left) Prof. Tai-Fai Fok; Prof. Chi-Hin Cho; Prof. Paul Bo-San Lai, Chair of Department of Surgery, CUHK and Associate Member of Cancer & Inflammation Program; Prof. Woody Chan; Prof. Wai-Yee Chan



(From left) Prof. Yuk-Yu Ip, Nancy, Academician, The Chinese Academy of Sciences, HKUST; Prof. Wai-Yee Chan; Prof. Ho-Keung Ng, Associate Dean (Education), Faculty of Medicine, CUHK and Associate Member of Neuro-degeneration, -development and Repair Program



Different scientific sessions and poster session at the Research Day 2010



Research Outputs

Since its inception till 30 June 2010, 36 investigators of the School have published at least one full length peer-reviewed scientific paper. With varied degrees of involvement of our investigators, the School was able to produce a total of 291 academic publications during the reporting period. These included:

- ◆ 6 scholarly books, monographs and chapters*
- ◆ 162 peer-reviewed scientific publications, with five of them in journals bearing an impact factor (IF) higher than 10, and fourteen of them in journals bearing an IF higher than 5*
- ◆ 2 comments and letters, with one of them in a journal bearing an IF of 5 or more*
- ◆ 121 conference papers/abstracts

(* See Appendix 2 for the corresponding publication list)

In terms of research grants, a total of 98 ongoing projects have been undertaken at the School, involving funds of some HK\$150 million. Among these projects, 37 commenced between 1 June 2009 and 30 June 2010, involving funds of some HK\$22 million.

In the RGC General Research Fund (GRF) 2010-2011 exercise, a total of 11 research projects totaling HK\$13.6 million were successfully funded. These funded projects will commence in the last quarter of 2010.

Other than the research grants from the HKSAR Government (e.g., RGC, Food and Health Bureau, Innovation and Technology Fund, Beat Drugs Fund, etc.), our investigators have been able to draw support from local, mainland and overseas industrial sectors. Local Chinese companies funding our investigators include Eu Yan Sang (H.K.) Ltd., Lonn Ryonn Pharma Ltd., Sharpwell Technology Ltd., Guizhou Tongjitang Pharmaceutical Co., Ltd., Andrew Lee King Fun & Associates Architects Ltd., Apollonian Biosystems Ltd, and Zhang Long Industrial Company (H.K.). Overseas supporters include Centre National de la Recherche Scientifique (CNRS), Ecole Nationale Supérieure de Chimie de Paris (ENSCP), Novartis Institute for BioMedical Research, Inc., Boehringer Ingelheim, Merck's Investigator-Initiated Program, Amgen U.S.A., SinoVeda Canada Inc., Pneumo Labs (U.K.) Ltd. and Helsinn Labs (U.K.) Ltd. We are also indebted to private donors who have generously supported various research projects.



Apart from commitment to individual and School-level projects, our investigators have demonstrated active engagement in and made substantial contributions to research institutes or centres within and outside the University by taking up the corresponding directorship or presidentship positions, for example:

Investigator's Name	Position held and Name of Research Institute / Centre / Professional Body
Prof. Wai-Yee Chan	Director, Stem Cell and Regeneration Center, CUHK
Prof. Hsiao-Chang Chan	Director, Epithelial Cell Biology Research Centre, CUHK Director, CUHK-Zhejiang University Joint Research for Human Reproduction and Related Diseases
Prof. Chi-Hin Cho	President, Gastrointestinal Pharmacology Section, International Union of Basic and Clinical Pharmacology
Prof. Kwok-Pui Fung	Director, Institute of Chinese Medicine, CUHK Director, CUHK-Zhejiang University Joint Laboratory on Natural Products and Toxicology Research
Prof. Yu Huang	Director (Basic Science), Institute of Vascular Medicine, CUHK
Prof. Siu-Cheung Tam, Michael	Director, Kunming Institute of Zoology/CUHK Joint Laboratory of Bioresources and Molecular Research in Common Diseases
Prof. Kwok-Wing Tsui, Stephen	Director, Hong Kong Bioinformatics Centre Director, Center for Microbial Genomics and Proteomics
Prof. Miu-Yee Waye, Mary	President, Hong Kong Society of Biochemistry and Molecular Biology
Prof. Wing-Ho Yung	President, The Hong Kong Society of Neurosciences
Prof. Tai-Wai Yew, David	Director, Academy of Military Medical Sciences / CUHK Joint Brain Research Centre

“With the increased central support that the new School offers such as the core facilities, I can tackle projects that would be difficult to do in the past.”



Prof. Ya Ke

New Developments and Initiatives

While we have managed to make significant progress in different research areas in only one year, we do not feel complacent about these achievements but continue to take concerted efforts in elevating the research performance at the individual and School level. To realize this, we have planned to take the following initiatives in the coming years:

- ◆ The School will take a more active role in exploring opportunities for inter-institutional research collaboration locally, regionally and globally, hence creating greater synergy in research and promoting joint grant applications for different funding schemes. All our investigators are encouraged to participate in the new Theme-based Research Scheme under the Research Endowment Fund administered by the RGC, and national research funding schemes such as 973, 863, etc.
- ◆ We will continue to organize joint conferences and symposia with local, regional, and internationally prestigious scientific organizations. An example is the Conference on Developmental Studies in Health Diseases to be jointly organized by the National Natural Science Foundation of China (NSFC) and the School. The Conference will take place on 19 and 20 October 2010 in CUHK.
- ◆ To facilitate translational research and to generate more research funding for the School, we will capitalize on our existing strengths to build closer partnerships with the private and industrial sectors.
- ◆ An interim review of the existing five TRPs will be conducted in consultation with the School's Scientific Advisory Committee.
- ◆ With inputs from individual TRPs, the Research Committee will review the current mode and effectiveness of the appointment of Associate Members.
- ◆ As far as individual investigators are concerned, especially those at the junior rank, senior members of the School will provide professional advice, editorial service and pre-submission review so as to facilitate their manuscript writing. In addition, the School has planned to put in place incentive schemes to encourage research such as publishing high impact papers, winning research grants, receiving research awards, etc.
- ◆ In the long run, we will extend our effort in raising funds from philanthropists and industries for setting up a research fellowship programme and for supporting members' participation in overseas scientific activities.



Core Laboratories

To provide investigators of the five Thematic Research Programs with access to state-of-the-art equipment and specialized technologies, resources of the four former preclinical departments were pooled together. In the beginning of July 2009, four Core Laboratories were established, namely, the Flow Cytometry and Cell Culture Core, the Histology Core, the Macromolecular and Microarray Core, and the Microscopy and Imaging Core. Led by Prof. Kenneth Lee, Managing Director of Core Laboratories, a team of trained technicians oversee the daily operation of the Core Laboratories and provide technical advice and help to the users.



Core Labs Team with Prof. Wai-Yee Chan (front, 3rd from left) and Prof. Kwok-Pui Fung (front, 3rd from right). The team members include (front, from left) Ms. Jean Kung; Prof. Kenneth Lee, Managing Director of Core Labs; Mrs. Corinna Hui; Ms. Jenny Hou and (rear, from left) Mr. Eric Yau; Mr. Samuel Wong; and Ms. Beatrice Cheng

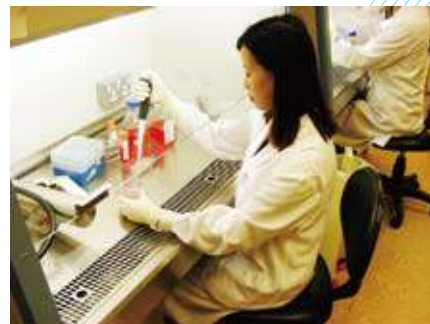
The Flow Cytometry and Cell Culture Core Laboratory is operated at containment levels 1 and 2, allowing primary culture and maintenance of mammalian cell lines. Basic culture room equipments in the Laboratory include class II biosafety cabinets, CO₂ incubators, centrifuges, inverted phase contrast microscopes, a dissecting microscope, a Zeiss Axiophot inverted fluorescence microscope and refrigerated centrifuges. There is also a BD LSRFortessa Flow Cytometer and a BD FACSAria II Flow Cytometer that allows multi-colour cell analysis and sorting.

The Histology Core Laboratory is designed for producing histological slides from frozen and paraffin embedded tissues, and is equipped with an automated enclosed histo-processor, microtomes, cyrostats, and section staining sets. There is also a Zeiss Axiophot Fluorescence microscope fitted with a digital imaging system and spot digital camera for image analysis of microscopic slides. The laboratory also provides technical help on performing routine haematoxylin and eosin staining, immunohistochemistry, immunofluorescent staining and *in situ* hybridization techniques for research and teaching purposes.

The Macromolecular and Microarray Core Laboratory is equipped with an Agilent 2100 Bioanalyzer, a Nanodrop 2000c spectrophotometer, an Affymetrix Fluidic Station 450, a GeneChip® Hybridization Oven 645, a GeneChip® Scanner 3000 7G System, an ABI Fast Real Time PCR 7900HT, several PCR machines, and other equipments for performing expression and genomic analyses.

The Microscopy and Imaging Core Laboratory is equipped with a Hitachi H7100FA transmission electron microscope allowing high resolution and tilt observation of resin sections and biofilm specimens, and a JEOL JSM6301F field emission scanning electron microscope for examining surface morphology of critical point dried biological specimens. In addition to the conventional ancillary sample preparation instruments, transmission electron microscopy sample preparation instrumentation also includes a Reichert AFS low temperature processing unit and a Leica ultracult UCT for cryo-sectioning to facilitate immuno-EM work. There is also an Olympus FV1000-ZCD laser scanning confocal system fitted with an IX81 inverted microscope and laser sets of spectral type multi-Argon, LD405, LD559 and LD635 allowing fixed and live cell fluorescence imaging.

There are also specialized allowing equipments acquired by different Thematic Research Programs, such as the moor FLPI Full-field Laser Perfusion Imager and Nikon Ti-E live cell imaging system, which are intended to fulfill the special needs of the Programs.



Over the past year, a total of six workshops were held to allow students, technicians, and researchers to familiarize themselves with the special features of different equipments and technologies.

To promote closer interdisciplinary research through shared use of our core equipment and exchange of technical expertise and know-how, an official agreement was signed on 23 March 2010 among our School, the Hong Kong Science and Technology Parks Corporation, the Faculty of Science, and the Li Ka Shing Institute of Health Sciences.



Investigators outside the School are welcome to use the facilities available in our Core Laboratories at a fee. To date, the laboratories have accommodated users from the Departments of Anatomical and Cellular Pathology, Medicine and Therapeutics, Ophthalmology and Visual Sciences, Orthopaedics and Traumatology, and the Jockey Club Centre for Osteoporosis. Other users include the Department of Biology, the School of Chinese Medicine, and the School of Pharmacy.

New Developments and Initiatives

- ◆ Detailed plans have been drawn up to relocate the four established Core Laboratories to the new School building currently being constructed in Area 39, Northside Research Campus, around late 2011. The relocation of all the major equipment and furnishings has been finalized and positioned to best serve the needs of all the investigators of the School.
- ◆ The School has also worked out a plan to set up, in consultation with the University's Laboratory Animal Services Centre (LASEC), an animal-holding core facility in the new building. As a tentative plan, the facility will be located on Level 8 of the new building for housing and maintaining laboratory animals (e.g. ferrets, hamsters, mice, rabbits and rats). With the provision of this service, facilities for performing behavioural studies and small animal surgery will be made possible. In addition to mammals, facilities to maintain and produce transgenic *Xenopus* and Zebra fish will also be set up.
- ◆ The School has successfully secured funding from the University to establish a Transgenic Core Service Centre. Based at the LASEC, the Centre will contain a laboratory for performing micromanipulation and culturing of stem cells and embryos. There will also be three animal-holding rooms for housing the transgenic mice. The soft-launch of the Centre is planned for late 2010.
- ◆ In view of the increasing role and application of bioinformatics in different domains of biomedical research, the School has planned to establish a Bioinformatics Core Laboratory in the coming year.

Details on our Core Laboratories, including the booking guidelines and charging scheme, are available at http://www.sbs.cuhk.edu.hk/Core_Labs.asp.



Teaching and Learning

Apart from commitment to the pursuit of research excellence, our School also attaches great importance on nurturing high-caliber undergraduate and postgraduate students through the adoption of different teaching and learning-related initiatives.

Graduate Education

A Graduate Education Committee was formed on 2 June 2009 to oversee postgraduate training. Chaired by Prof. Woody Chan, Associate Director (Graduate Education), this Committee is responsible for handling matters related to postgraduate education including recruitment, selection and admission of students, management of all postgraduate courses, laboratory assignment of students, assessments of students' academic performance, students' evaluation on postgraduate courses, etc.

On 1 August 2009, the four former Graduate Divisions of Anatomy, Biochemistry (Medicine), Pharmacology and Physiology were merged to form the Graduate Division of Biomedical Sciences. Being the biggest graduate division within the University, this Division will carry out the resolutions made by the Graduate Education Committee and manage all MPhil and PhD programmes of the four former Divisions.

As of 30 June 2010, the Division has 40 thesis supervisors and 113 research postgraduate students. A total of 5 MPhil and 27 PhD students graduated in the academic year 2009-2010. The breakdown of these PhD and MPhil students is as follows:

Residency	MPhil (Full-time)	MPhil (Part-time)	PhD (Full-time)	PhD (Part-time)	Total
Local	19	-	26	4	49
Non-local	11	-	53	-	64
Total	30	0	79	4	113



Tutorial session for postgraduate students

Major Achievements in 2009-2010

- ◆ The University approved a new articulated MPhil-PhD Programme offered by the Division of Biomedical Sciences. This Programme will admit its first cohort of students in 2010-11 and the MPhil and PhD programmes of the former four Divisions will be gradually phased out. Students joining the new articulated MPhil-PhD Programme are expected to acquire a broad understanding of biomedical sciences by completing at least four 3-unit lecture courses, one seminar course and one biostatistics course, and to obtain in-depth knowledge in a specific area of research by fulfilling the research requirements.
- ◆ Along with the introduction of the articulated MPhil-PhD Programme, four new theme-based courses, namely *Cancer and Inflammation (SBMS6005)*, *Fundamentals of Neuroscience (SBMS6006)*, *Special Topics in Reproduction, Development and Endocrinology (SBMS6007)* and *Vascular and Metabolic Biology (SBMS6008)* were approved by the University earlier this year, and will be available for enrolment by students.
- ◆ To provide students with global perspectives and cutting-edge research training opportunities, the Division established the National Institutes of Health (NIH) Graduate Partnerships Program under which participating students will benefit from working with renowned scientists at the world-class NIH in the U.S.A. for an extended period of about 3 years. Students who have taken part in this Partnerships Program include:

Hoi-Hung Cheung[^]: Section on Developmental Genomics, Program in Reproductive and Adult Endocrinology, National Institute of Child Health and Human Development (NICHD)

Sao-Fong Cheung: Section on Growth and Development, Program in Developmental Endocrinology and Genetics, NICHD

Yuen-Nei Cheung^{*}: Section on Nutrient Control of Gene Expression, Program in Cellular Regulation and Metabolism, NICHD

Xiaozhuo Liu: Laboratory of Clinical and Developmental Genomics, NICHD

Sin-Man Ng: Section in Genomics of Differentiation, Program in Reproductive and Adult Endocrinology, NICHD and Vaccine Branch of National Cancer Institute (NCI)

Kit-Man Tsang[^]: Section on Endocrinology and Genetics, Program in Developmental Endocrinology and Genetics, NICHD

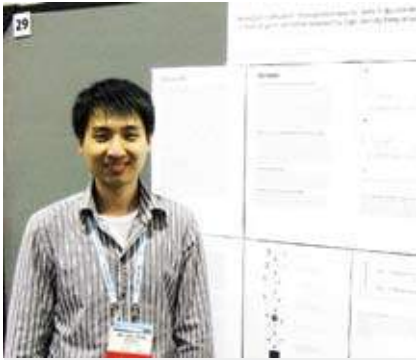
* Graduated in 2009; ^ Graduated in 2010



Miss Sin-Man Ng and her labmates at NIH



Miss Kit-Man Tsang and her labmates at NIH



Mr. Hoi-Hung Cheung, participant of NIH Graduate Partnerships Program who graduated in 2010

"The CUHK-NIH Graduate Partnerships Program unites The Chinese University of Hong Kong and the world leading research program at the National Institutes of Health to provide a collaborative graduate education program and research environment. Participants like me benefitted from the academic merits of this endeavor, as well as exposure to various outstanding worldwide research teams. At the NIH, independent and critical thinking is highly encouraged through interdisciplinary learning. It is a great experience for me."

- ◆ In February 2010, the School signed a Memorandum of Understanding on Collaborative Partnership in Training of Pre-doctoral Students with the School of Basic Medical Sciences of Zhejiang University. Under the joint supervision of teachers from both Schools, a number of highly qualified and competent MPhil students from Zhejiang University are expected to be recruited each year to the Division to pursue their PhD study here.
- ◆ The Staff-Student Consultative Committee was formed last August comprising the Chairman of the Graduate Education Committee, staff, and student representatives. This Committee provides a platform for constant communication between staff and students on all aspects relating to graduate education.
- ◆ In response to the growing number of non-local graduate students admitted to our School, Prof. Ge Lin and Prof. Xiaoqiang Yao were appointed as Advisors for Non-local Students last October. Non-local graduate students, especially those from the mainland, can seek their personal advice on a need basis. The hope is to facilitate the adaptation of the non-local students to the culture and campus life in the University and Hong Kong.



Prof. Ge Lin



Prof. Xiaoqiang Yao

- ◆ In September 2009, the School set up an *Emergency Sponsorship Fund* for providing financial support to our postgraduate students (including those carrying honorary appointments such as Honorary (Junior) Research Assistants and those students on exchange basis) should they encounter fiscal difficulty at the time of an emergency (such as medical or family emergencies). By January 2010, a total of HK\$12,700 was raised.
- ◆ Apart from the 115 graduate seminars conducted last year, two gatherings were specifically arranged for postgraduate students, School Director, Associate Director (Graduate Education) and members of the Graduate Education Committee on 19 August 2009 and 2 February 2010. These activities aimed to enhance the sense of belonging to the School among our students and to provide an informal platform to share their views with our academic and teaching staff.



The first postgraduate student gathering held in August 2009

New Developments and Initiatives

- ◆ With the aim of promoting interactions among students and supervisors, we have planned an annual Postgraduate Research Day to be held in October, commencing 2010-2011. All research postgraduate students of the Division will be requested to present their research in posters. The authors of the 10 best posters will then present their research projects on the podium to compete for prizes, including special conference grants.
- ◆ To encourage students to present their work in international conferences, a Research Postgraduate Student Conference Grant will be launched in the academic year 2010-2011. It will provide partial financial support for our students to attend and present papers in overseas conferences. The amount supported is intended to contribute towards overseas travel, registration fee and hotel accommodation. In order to ensure the sustainability of this Conference Grant, the Division and the School will make joint effort in drawing donations from the private and industrial sectors.
- ◆ Apart from the four new theme-based courses mentioned earlier, another theme-based course on Stem Cell and Regeneration will be developed in 2010-2011.
- ◆ In view of the excellent turnout and positive feedback received during the last two informal gatherings, the Division will organize different kinds of activities for our students and supervisors such as picnic, hiking, etc, in the next academic year. Also, our students will be encouraged to form a postgraduate student association with the view to facilitate effective communication among students, the Division and other academic and teaching staff in the School.



A group of postgraduate students meeting with Prof. Eric F. Wieschaus, the Nobel Laureate in Physiology or Medicine 1995, at the 43rd Annual Meeting for the Japanese Society of Developmental Biologists

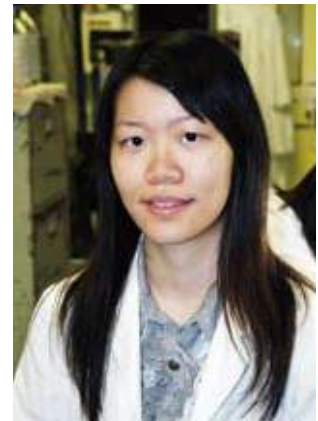
Details on our graduate education, including introduction of the new MPhil-PhD in Biomedical Sciences Programme and schedule of our graduate seminars, are available at <http://www.sbs.cuhk.edu.hk/Postgraduate.asp>.

“As a MPhil student in the School of Biomedical Sciences, I have access to the excellent learning and development opportunities. I am fascinated with the scientific research and it is so rewarding to be a part of a team for improving the quality of human life. Every day is different here; I’m always working on new things and facing new challenges with support.”



Mr. Kwan-Keung Leung, Raymond
Year 4 PhD candidate

“With the establishment of the SBS, I am glad to be given greater feasibility to expand our own projects because of the ease for bridging collaborations among different team members. Those who conduct similar research can work together thus creating a vigorous yet harmonious research atmosphere within the whole School. I, as a student, am inspired with multidisciplinary research ideas through attending seminars, as well as from the greater opportunities to share and observe what our peers are doing.”



Miss Chui-Wa Poon, Christina
Year 1 MPhil candidate

Undergraduate Education

A Medical Education Committee was formed to oversee the operation of all undergraduate teaching previously administered by the four former preclinical departments. Chaired by Prof. Michael Tam, Associate Director (Undergraduate Education), this Committee is responsible for designing policies on teaching duty assignment, time tabling, and student assessments as well as coordination among the various teaching units within the School, including the dissecting and histology laboratories.

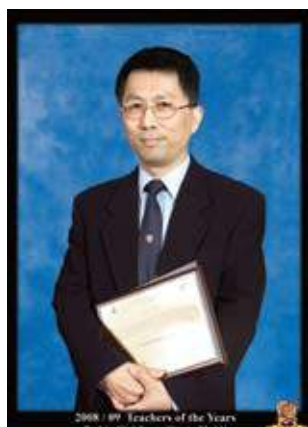
Different sub-committees and coordinators have been formed and appointed under the Medical Education Committee, and these will oversee the medical and non-medical courses offered to various undergraduate programmes within and outside the Faculty of Medicine.

In 2009-2010, our School offered service teaching to Medicine MBChB, Nursing, Pharmacy, Chinese Medicine, Food and Nutritional Sciences, and Biology (Human Biology Stream) Programmes. In addition, two University General Education courses, namely, *Perspectives in Medical Sciences (UGB278Z)* and *Perspectives in Clinical Sciences (UGB279Z)*, were offered in the last academic year.



Major Achievements in 2009-2010

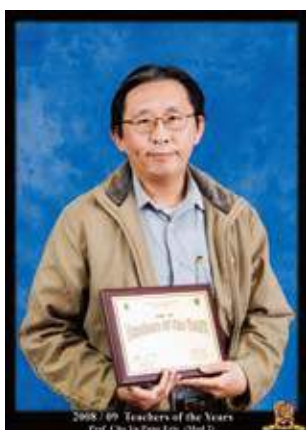
- ◆ Through the establishment of a refined framework for administering all undergraduate courses offered by the School, the teaching manpower has been further consolidated as reflected in the more even distribution of teaching load among our academic and teaching staff in the upcoming academic year.
- ◆ With the appointment of Prof. Sun-On Chan, Hector, as Dissecting Laboratory Coordinator and Prof. Sau-Wun Shum, Alisa, as Histology Laboratory Coordinator, the initial reviews on dissecting and histology teaching (including the current formats, overall operation, and resources) were completed. As a result, improvements in the provision of dissecting and histology teaching have been made.
- ◆ Five teachers of the School received the “Teacher of the Year Award 2008-09” given by the Faculty of Medicine. They are Prof. Chak-Leung Au, Simon; Prof. Sun-On Chan, Hector; Prof. Yu-Pang Cho, Eric; Prof. Wing-Hung Ko and Prof. Sau-Wun Shum, Alisa. The selection criteria include distinguished academic performance, significant contributions in extra-curricular activities, and dedication in serving the community through community services. The awardees attended the “Teachers and Students’ Award Presentation Ceremony” held on 3 February 2010 at Shaw Auditorium of the Postgraduate Education Centre, Prince of Wales Hospital.



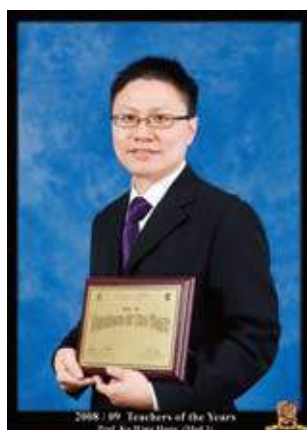
Prof. Chak-Leung Au, Simon



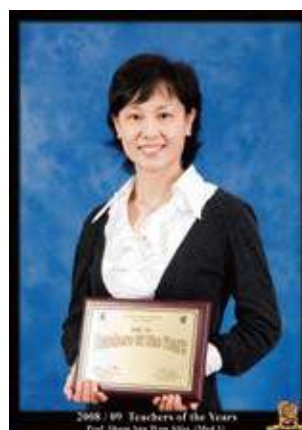
Prof. Sun-On Chan, Hector



Prof. Yu-Pang Cho, Eric



Prof. Wing-Hung Ko



Prof. Sau-Wun Shum, Alisa

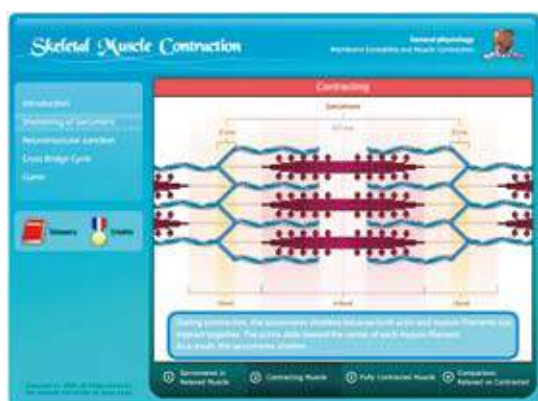
- ◆ The Teaching and Learning (T&L) Unit was established in October 2009 to help with the implementation of the 3+3+4 curriculum in 2012, and to facilitate the increasing emphasis on the application of outcomes-based approaches in teaching and learning, as advocated by the UGC. Under the leadership of Prof. Chak-Leung Au, Simon, and with the successful recruitment of new Instructors, it is expected that the T&L Unit will not only provide professional teaching but also play a significant role in assuring and enhancing the overall quality of teaching and learning in the School.

Teaching and Learning Unit

The T&L Unit aims to:

- ◆ engage in the development and promotion of effective tools and techniques for the advancement of teaching quality and facilitation of student learning;
- ◆ conduct research in the areas of teaching, learning and assessments, both formative and summative, so as to provide evidence for the work being carried out by the Medical Education Committee and the T&L Unit; and
- ◆ study and implement policies which are in line with the University's quality assurance framework and preparation for the 4-year curriculum in 2012.

In addition, the Unit works in close collaboration with the Centre for Learning Enhancement and Research (CLEAR) of the University in developing new teaching- and learning-related initiatives and promoting good teaching and learning practices within the School.



A screen captured from the animated teaching courseware on "Skeletal Muscle Contraction"



Members of the T&L Unit, including (rear, from left) Dr. Shui-Shan Hwang, Isabel; Dr. Hong-Kit Poon, Sam; Prof. Chak-Leung Au, Simon; (front, from left) Dr. Shi-Ying Lam, Joyce; Dr. Sin-Nga Lau, Ann; Dr. Wing-Sze Lau, Josephine; Dr. Sen-Mun Wai, Maria; Dr. Kit-Ying Lee, Rebecca

With the support of the University's Courseware Development Grants, the Unit has successfully developed some new animated teaching courseware on "Membrane Excitability", "Skeletal Muscle Contraction", "Cellular Basis of Cardiac Muscle Contraction" and "Renal Physiology" for medical and basic science teaching.



Dr. Shui-Shan Hwang, Isabel

“The new Teaching and Learning Unit has offered me both freedom and opportunities to develop innovative teaching and learning tools for our students of different courses. I am also delighted that I have received constant encouragement from both the Unit and the School to engage in educational research for course development and improving our students’ learning.”

New Developments and Initiatives

- ◆ The School has successfully launched a pilot Summer Student Research Scheme in 2010. Up to five Year 1 MBChB major students were recruited and assigned to individual investigators of the School in the hope that they would gain hands-on experience in laboratory-based research during the summer break, thus broadening the pool of quality students for potential admission to the School’s articulated MPhil-PhD Programme in the long run. Based on the feedback to be collected from the participating students and supervisors, this Scheme will be continually reviewed on its effectiveness and arrangements in the ensuing years.
- ◆ To further enlarge the pool of quality students for our MPhil-PhD Programme and to build stronger connections with the Faculty, we have also planned to strengthen our current level of support to the Faculty’s one-year Intercalated Degree Programme in Medical Sciences, which is intended for admission of MBChB students who have completed their second- or third-year curriculum.
- ◆ From the academic year 2010-2011 onwards, the School will extend its service teaching to the new BEng in Biomedical Engineering Programme.
- ◆ To further promote an interactive teaching and learning environment, the School has supported the development of a student response system (i.e. Clickers) which aims to engage students in active classroom learning.
- ◆ Apart from commitment to research in teaching and learning and ongoing exploration of new teaching- and learning-specific measures, the T&L Unit will continue to review, refine and strengthen its role in assuring the overall teaching and learning quality of the courses offered by the School.

Details on our undergraduate education are available at <http://www.sbs.cuhk.edu.hk/Undergraduate.asp>.

“The establishment of the Teaching and Learning Unit enhances the collaborations between colleagues of diverse backgrounds but with similar aspirations. We are encouraged to develop pedagogies and projects to facilitate teaching and learning, while the opportunity to teach topics of cross disciplines enriches my experience in teaching.”



Dr. Sin-Nga Lau, Ann

Academic Links

To strengthen the academic and scientific collaborations between our School and non-local universities and research institutes and to further broaden the international outlook of our investigators and students, we enthusiastically engage ourselves in developing collaborative frameworks with institutions renowned in different fields of biomedical sciences. Since its formation, our School has signed Memoranda of Understanding (MOU) with the following institutions:

- ◆ Chinese Academy of Sciences, Guangzhou Institute of Biomedicine and Health (GIBH), China
- ◆ School of Basic Medical Sciences, Zhejiang University, China
- ◆ School of Medicine, University of Pittsburgh, U.S.A.

Under these MOUs, the partner institutions will arrange exchange of academic personnel and students, share educational and scholarly materials, and where possible, undertake special projects through joint applications for national or international research funding schemes.

On 10 April 2010, Prof. Wai-Yee Chan led a delegation to visit the School of Basic Medical Sciences (SBMS) of Zhejiang University to explore research cooperation opportunities. Professors Woody Chan, Christopher Cheng, Kenneth Lee, and Chao Wan were in the delegation. Apart from the special ceremony during which Prof. Wai-Yee Chan and Prof. Hongwei Ouyang, Executive Dean of SBMS of Zhejiang University, signed the MOU on behalf of both Schools, a seminar was held where representatives from both sides exchanged views on topics including reproduction, endocrinology, stem cells and bone development. The visit was a success and is expected to lead to future collaboration between the two Schools.



Delegation in front of the SBMS Building of Zhejiang University



(Rear, from left) Prof. Chao Wan; Prof. Kenneth Lee; Ms. Samantha Wong, Office of Academic Links (China), CUHK; Prof. Christopher Cheng and Prof. Woody Chan; (front, from left) Prof. Wai-Yee Chan and Prof. Hongwei Ouyang

Apart from organizing outgoing visits to our partner institutions, our School also received a number of academic visitors and scholars in the past year. One of the prominent examples was a Danish delegation visit on 10 March 2010. The delegation comprised scientists from the University of Copenhagen, the Technical University of Denmark and Aarhus University, along with high-level Danish government officials with an interest in Biomedicine, who met with our investigators for possible research collaborations.



Members of the Danish delegation at the meeting with Prof. Wai-Yee Chan et al

The setting up of a Stem Cell and Regeneration Center (SCRC) last year was yet another concrete example illustrating our commitment to not only leading-edge and emerging research disciplines but also strengthening of scholarly connection among researchers in the related fields within and outside the University. Many investigators from institutions and universities in the U.S.A., Europe, China, Australia and Asia have already expressed a willingness to take part in collaborative research programmes or academic personnel exchange under the framework of this Center, and we look forward to stimulating scientific and academic exchanges in the fields of stem cell and regeneration biology in the future.

Scholarly Exchange

Aside from generating greater synergy in research, the formation of the five TRPs in the School also successfully attracted numerous top-notch researchers and scholars from the mainland and overseas to have scholarly exchange with our investigators. Last year, a total of 39 seminars were delivered by these invited guests at our School; they included:

Cancer and Inflammation

Speaker's Name	Seminar Date
Dr. Jean-Marc Vanacker, Université de Lyon, France	19 October 2009
Prof. Toutai Mituyama, National Institute of Advanced Industrial Science and Technology, Japan	25 February 2010
Dr. Hong-Ying Wang, State Key Laboratory of Molecular Oncology, Cancer Institute and Hospital, Chinese Academy of Medical Sciences, China	12 March 2010
Prof. Heng-Phon Too, National University of Singapore, Singapore	17 March 2010
Dr. Cheuk-Tung Leung, Harvard Medical School, U.S.A.	12 April 2010
Dr. Raymond Wan, National Institute of Advanced Industrial Science and Technology, Japan	26 April 2010
Dr. Francis S. Markland, University of Southern California, U.S.A.	18 June 2010
Prof. Kwong-Kwok Wong, The University of Texas M.D. Anderson Cancer Center, Houston, U.S.A.	21 June 2010

Neuro-degeneration, -development and Repair

Speaker's Name	Seminar Date
Prof. Paul L.R. Andrews, St. George's University of London, U.K.	5 November 2009
Dr. Virpi Vanamo Smith, Great Ormond Street Hospital for Children NHS Trust, U.K.	5 November 2009
Prof. Lynda Chin, Harvard Medical School, U.S.A.	13 November 2009
Prof. Ronald A. DePinho, Harvard Medical School, U.S.A.	13 November 2009
Prof. Bin Hu, University of Calgary, Canada	13 November 2009
Dr. Chi-Hang Wong, Nanyang Technological University, Singapore	21 December 2009
Prof. Chung-Leung Li, Institute of Cellular and Organismic Biology, Academia Sinica, Taiwan	21 December 2009
Prof. Peter T. H. Wong, National University of Singapore, Singapore	12 April 2010
Prof. Peter McCaffery, University of Aberdeen, U.K.	16 April 2010

Reproduction, Development and Endocrinology

Speaker's Name	Seminar Date
Dr. Juan S. Bonifacino, Eunice Kennedy Shriver National Institute of Child Health and Human Development, NIH, U.S.A.	6 July 2009
Prof. Jun-Ping Liu, Monash University, Australia	14 August 2009
Prof. Kunxin Luo, University of California, Berkeley, U.S.A.	24 August 2009
Prof. Asgi Fazleabas, Michigan State University, U.S.A.	9 September 2009
Prof. Ramani Ramchandran, Medical College of Wisconsin, U.S.A.	15 April 2010
Prof. Chris Lau, University of California, San Francisco, U.S.A.	27 May 2010
Prof. Deli Shi, Université Pierre et Marie CURIE, France	31 May 2010

Stem Cell and Regeneration

Speaker's Name	Seminar Date
Prof. Yi-Xian Qin, State University of New York at Stony Brook, U.S.A.	6 July 2009
Dr. Biao Lu, System Biosciences, U.S.A.	23 November 2009
Prof. Herman S. Cheung, University of Miami, U.S.A.	27 November 2009
Prof. Rocky S. Tuan, University of Pittsburg, U.S.A.	5 February 2010
Prof. Hong-Wei Ouyang, Zhejiang University, China	6 February 2010
Prof. Philippe Neyret, Centre Albert Trillat, Lyon University Hospital, France	23 April 2010
Dr. Andrea Munsterberg, University of East Anglia, U.K.	10 May 2010

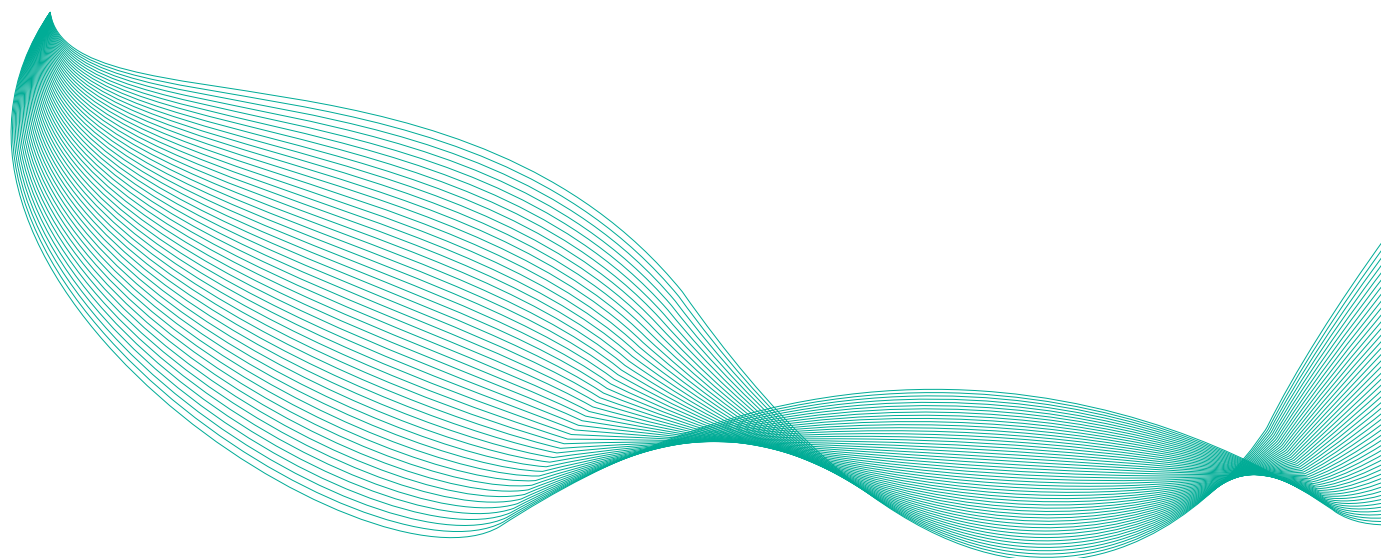
Vascular and Metabolic Biology

Speaker's Name	Seminar Date
Prof. Minghui Zou, University of Oklahoma Health Science Center, U.S.A.	15 September 2009
Dr. Dusting Greg, University of Melbourne, Australia	2 October 2009
Prof. Zhiming Zhu, Third Military Medical University, China	28 October 2009
Dr. Jean-Marc Bugnicourt, Amiens University Hospital, France and Prof. Jean-Marc Chillon, Université de Picardie Jules Verne, France	13 November 2009
Dr. King-Ho Cheung, University of Pennsylvania, U.S.A.	17 December 2009
Prof. Jun Tao, Sun Yat-Sen University, China	22 January 2010
Dr. Jeng-Jiann Chiu, National Health Research Institutes, Taiwan	11 February 2010
Prof. Jian Yang, Columbia University, U.S.A.	8 June 2010

Many of the investigators in our School were also invited last year to deliver keynote lectures, talks and seminars by overseas institutions and professional bodies or by the organizing committee of international or regional conferences. Through participation in these scientific activities, not only the research findings and experience of our investigators can be effectively shared with the researchers and scholars outside the University, but also the academic connections with these overseas institutions and professional organizations can be further strengthened.

New Developments and Initiatives

- ◆ In the coming years, our School will continue to work closely with the Office of Academic Links (OAL) and the Office of Academic Links (China) (OAL(C)) in exploring more collaborative opportunities through organizing delegation visits to and developing new MOUs with prestigious institutions in the mainland and overseas.
- ◆ Under the signed MOUs, we will endeavour to deepen the current extent of collaboration and exchange activities. To start with, our School is planning a scientific symposium in 2011 in joint collaboration with the Chinese Academy of Sciences, Guangzhou Institute of Biomedicine and Health (GIBH), China, and the School of Medicine, University of Pittsburgh, U.S.A.



Outreach to Community

Aside from research and teaching activities, our School also tries hard to reach out to the community, with the hope of enhancing public knowledge and awareness in biomedical sciences. Last year, a number of our investigators were invited to share their knowledge with the public through contribution of featured articles to local newspapers and participation in television and radio interviews. Some of these examples were:

Investigator's Name	Topic addressed (Medium Name)	Publication Date
Prof. Leung Chan, Franky	Article on "Chemoprevention of prostate cancer" (<i>Apple Daily</i>)	21 January 2010
Prof. Sun-On Chan, Hector	Article on "Development and regeneration of axons in the central nervous system" (<i>Apple Daily</i>)	4 February 2010
Prof. Wai-Yee Chan	Articles on "Hong Kong born expert in reproductive disorders resolved a cause of pseudohermaphroditism" (<i>Economic Daily</i>); "Mutations of the luteinizing hormone receptor caused pseudohermaphroditism in boys" (<i>Apple Daily</i>); "Precocious puberty in boys is a risk factor for developing testicular tumor" (<i>Metro Daily</i>)	3 August 2009
	Article on "Genetic diseases and us – Are these diseases rare?" (<i>Metro Daily</i>)	19 October 2009
Prof. Hon-Ki Cheng, Christopher	Article on "Medicinal plants resistant to adverse conditions contain substances that help to treat gout and cancer" (<i>Apple Daily</i>)	29 April 2010
Prof. Ya Ke	Article on "Iron – is the more the better? Genetics diseases of iron" (<i>Metro Daily</i>)	30 November 2009
Prof. Yiu-Wa Kwan	Article on "In search for potential anti-diabetic drugs from Traditional Chinese Medicine: the Western approaches" (<i>Apple Daily</i>)	18 February 2010
Prof. Ka-Ho Lee, Kenneth	Article on "Stem cells storage" (<i>Singtao Daily</i>)	22 September 2009
	Article on "Can we have only mother's genes or father's genes – imprinting diseases" (<i>Metro Daily</i>)	14 December 2010
	Article on "Use of stem cells in the treatment of heart diseases" (<i>Apple Daily</i>)	1 May 2010
	TV interview on the dispute over therapeutic use of animal stem cells (<i>News Magazine 時事追擊</i> , ATV)	12 June 2010
Prof. Gang Li	Article on "The use of stem cells as anti-cancer gene therapy vehicles" (<i>Apple Daily</i>)	18 March 2010
Prof. Kwok-Wing Tsui, Stephen	Article on "Naphthalene is harmful for bugs –and for G-6-PD deficiency patients" (<i>Metro Daily</i>)	16 November 2009
Prof. Miu-Yee Waye, Mary	Article on "Writing ability and disability – all because of genes" (<i>Metro Daily</i>)	2 November 2009
Prof. Tai-Wai Yew, David	Press conference on the project entitled "Long-term ketamine abuse and apoptosis in cynomolgus monkeys and mice" funded by the Beat Drugs Fund Association (<i>Radio Television Hong Kong</i>)	10 August 2009
	TV interview on "Ketamine addiction" (<i>Tuesday Report 星期二檔案</i> , TVB Jade)	30 March 2010
	A chapter on "氯胺酮的動物實驗 — 科研的結論 (<i>Animal Studies of Ketamine</i>)" published on the book entitled "香港濫K (<i>Drug Abuse in Hong Kong</i>)" (<i>Mingpao</i>)	June 2010
Prof. Hui Zhao	Article on "Study human hereditary diseases by using zebrafish model system" (<i>Apple Daily</i>)	7 January 2010



Press interview held at RTHK on 10 August 2009

The RTHK radio programme 精靈一點 (broadcast on Radio 1 every Monday to Friday from 1 pm to 3 pm) hosted a weekly program between early June and mid July, 2010, featuring the School of Biomedical Sciences. In the programme, different Professors were invited to address the relationship between biomedical research and health issues of interest to the lay public. In view of the positive feedback, the programme's host may arrange a follow-up series in late 2010 or early 2011. Another series discussing topics of biomedical research and their relationship with public health issues will also be launched on *Yahoo!Health* (健康-Yahoo!) (<http://hk.news.yahoo.com/health/index.html>) in the last quarter of 2010.

Awards and Recognitions

The outstanding achievements in research and scholarship together with the will to excel have earned our academic staff different forms of honours over the past year, e.g. academic awards, invitation to serve as reviewers for overseas research grants or chief editors / members of editorial boards for scientific publications, and honorary professorial appointments, etc. The various kinds of recognition bestowed upon our School members in 2009-2010 include:

Academic Awards

- ◆ Prof. Hon-Ki Cheng, Christopher:
Second-class Award of the 2009 State Natural Science Award (SNSA) for his 20-year research project on "Composition Analysis of Certain Medicinally Important Plants" in conjunction with Prof. R.X. Tan and Prof. L.D. Kong of Nanjing University, and Prof. R.L. Zheng and Prof. Z.J. Jia of Lanzhou University, China



Prof. Hon-Ki Cheng,
Christopher



"The crops that we are reaping today come from the good seeds that we sowed yesterday. I hope the SBS would flourish in our seed sowing and crop reaping process."

- ◆ Prof. Chi-Hin Cho:
Lifetime Achievement Award by the Western Returned Scholars Association Entrepreneur Alliance, Beijing, China

Reviewers for Overseas Research Grants

- ◆ Prof. Wai-Yee Chan: University of Padua, Italy, Research Programs
- ◆ Prof. Hang-Yung Lau, Alaster: Experimental and Translational Medicine Research Committee (ETMRC) under Chief Scientist Office, Scotland, U.K.
- ◆ Prof. Po-Sing Leung: Canada Excellence Research Chair in Diabetes
- ◆ Prof. Ge Lin: National Natural Science Foundation of China (中國國家自然科學基金委員會生命科學部中醫學與中藥學學科及藥物學與藥理學學科)
- ◆ Prof. John Rudd: Universities Federation for Animal Welfare (UFAW), U.K., and National Centre for the Replacement, Refinement and Reduction of Animals in Research (NC3Rs, U.K.) under Medical Research Council (U.K.)
- ◆ Prof. Helen Wise: Wellcome Trust Grant, U.K.
- ◆ Prof. Tai-Wai Yew, David: Scottish Scientific Council

Editorial Service for Scientific Publications

- ◆ Prof Wai-Yee Chan: Editorial Board member of *Journal of the American College of Nutrition*, *Journal of Endocrine Genetics*, *Journal of Current Molecular Medicine*, *Asian Journal of Andrology*, *Open Andrology Journal*, *Journal of Genetics and Genomics*, and *Bioscience Journal*; Guest Editor of *Birth Defects Research Part C - Embryo Today: Germ Cell Development*; Editor of *Methods in Molecular Biology*, volume on *Germline Development* (Human Press)
- ◆ Prof. Yiu-Wa Kwan: Associate Editor of *Frontiers in Cardiovascular and Smooth Muscle Pharmacology*
- ◆ Prof. Po-Sing Leung: Editorial Board member of *Stems Cells and Development*, *Antioxidants and Redox Signaling* and *International Journal of Biochemistry and Cell Biology*
- ◆ Prof. Ge Lin: Associate Editor of *Chinese Medicine* published by the International Society for Chinese Medicine (ISCM); Editorial Board member of *Journal of Environmental Science and Health (Part C, Environmental Carcinogenesis and Ecotoxicology Reviews)*, *Toxicology and Industrial Health*, and *Journal of Ethnopharmacology*
- ◆ Prof. John Rudd: Associate Editor of *Frontiers in Gastrointestinal Pharmacology* and *Frontiers in Neuropharmacology*, and Editorial Board member of *World Journal of Clinical Oncology*
- ◆ Prof. Helen Wise: Editor of *British Journal of Pharmacology*
- ◆ Prof. Xiaoqiang Yao: Editor-in-Chief of *The Open Circulation and Vascular Journal*
- ◆ Prof. Tai-Wai Yew, David: Chief Editor of *Neuroembryology and Aging*; Editorial Board member of *Anatomy Research International*, *Chinese Journal of Neuroanatomy*, and *International Journal of Alzheimer's Diseases*; Advisory Board member for textbooks *Clinical Surgery* (Saunders), *Gray's Anatomy for Students* (Churchill Livingstone), and *Clinical Neuroanatomy and Neuroscience* (Saunders)

Honorary Professorial Appointment

- ◆ Prof. Wai-Yee Chan: Adjunct Scientist, Laboratory of Developmental and Clinical Genomics, Intramural Research Program, Eunice Kennedy Shriver National Institute of Child Health and Human Development, National Institutes of Health, U.S.A.; Guest Professor, Faculty of Medicine, Zhejiang University, Zhejiang, China
- ◆ Prof. Ka-Ho Lee, Kenneth: Visiting Professorship at Jinan University and Shantou University Medical College China
- ◆ Prof. Sau-Wun Shum, Alisa: Visiting Lectureship at School of Medicine, Shenzhen University, China



Prof. Sau-Wun Shum, Alisa, with the students of School of Medicine, Shenzhen University

In addition to our academic staff, postgraduate students in our School also received different awards and honours last year acknowledging their exceptional academic and research achievements; they were:

Student's Name and Supervisor	Awards and Honours Received
Ms. Lihua Bao, Ph.D. candidate under supervision of Prof. Wood-Yee Chan, Woody	Best Poster Award, the International Anatomical Sciences and Cell Biology Conference
Mr. Wing-Lung Chan, Roy, M.Phil. candidate under supervision of Prof. Sau-Wun Shum, Alisa	Best Presentation Award, the 43rd Annual Meeting of the Japanese Society of Developmental Biologists
Ms. Sze-Wa Chan, Stella, Ph.D. candidate under supervision of Prof. John A. Rudd	Best Student Oral Communication Award, the 12th Scientific Meeting of the Hong Kong Pharmacology Society
Mr. Hoi-Hung Cheung, Albert Ph.D candidate under supervision of Prof. Wai-Yee Chan	Fellows Award for Research Excellence (FARE), National Institutes of Health, U.S.A.
Ms. Qiaoling Cui, Ph.D. candidate under supervision of Prof. Wing-Ho Yung	Parkinson's Disease Foundation Summer Student Fellowship, Parkinson's Disease Foundation, U.S.A.
Ms. Lai-Ting Kan, Winnie, Ph.D. candidate under Supervision of Prof. Ge Lin	Best Student Oral Communication Award, the 12th Scientific Meeting of the Hong Kong Pharmacology Society
Mr. Man-Yuen Lee, Leo, Ph.D. candidate under supervision of Prof. Sau-Wun Shum, Alisa	JSDB Travel Fellowship, the Japanese Society of Developmental Biologists
Ms. Siu-Ling Wong, Christine, Ph.D. candidate under supervision of Prof. Yu Huang	Postgraduate Research Output Award 2009, The Chinese University of Hong Kong



Ms Siu-Ling Wong, Christine (2nd from left) with Prof Tai-Fai Fok (2nd from right) and Prof. Wai-Yee Chan (1st from right) at the award presentation ceremony

"It is important to observe small details in experimental designs. Always bear a critical and careful mind to the results and think about what they imply and reflect even they may not be as expected. Genuine discussion with supervisor and fellows helps to brainstorm novel ideas which further develop the scope and significance of projects."

In recognition of our dedication to academic and research excellence, we were fortunate to have received generous donations from the following individual and companies last year in support of research projects undertaken by our investigators and members of the Teaching and Learning Unit :

- ◆ HOUBIO TECH CO. LTD.
- ◆ Life Angel Limited
- ◆ Mr. Tai-Fai Lau

Their generosity has given not only much encouragement to individual members but also the momentum to strive for significant advancement in our research and teaching in the coming years.

Along with the many initiatives planned for the School in the ensuing years, much effort will also be geared towards the coming mega project, i.e. relocation to the new research building.

To put the School under one roof and to prepare for the anticipated expansion in research activities, the School will be relocated by late 2011 to Block 1, CUHK Centralized General Research Lab Complex, Area 39 (Northside Research Campus). With the professional assistance from the different units in the University, particularly the Campus Development Office, it is expected that the whole relocation process will be completed in the first quarter of 2012.



The exterior outlook of the new research building of the School of Biomedical Sciences

According to the proposed floor plan, there will be 9 storeys in the new research block, with theme-based allocation of laboratory space and an open-lab format. Core lab facilities will be housed on each floor and Research Commons will be set up on Level 1 of the new building.

It is hoped that with the new infrastructure and the open laboratory format in the new building, there will be increased interaction among our staff. We will strive to provide an environment that is conducive to free scientific exchanges and intellectually stimulating dialogues among investigators and students alike. Our goal is to nurture a vibrant team of devoted researchers eager to become internationally-recognized leaders in their specialized fields of expertise.



View of the planned Research Commons



View of the planned Central Courtyard

Appendix 1

List of Associate Members of Thematic Research Programs (TRPs)

Name	TRP Affiliation*	Home Department
Prof. Bo-San Lai, Paul	CI	Surgery
Prof. Hui-Yao Lan	CI	Medicine and Therapeutics
Prof. Kwok-Nam Leung	CI	Biochemistry (Science)
Prof. Chi-Fai Ng	CI	Surgery
Prof. Siu-Man Ng, Simon	CI	Surgery
Prof. Jao-Yiu Sung, Joseph	CI	Medicine and Therapeutics
Prof. Kin-Wah To, Kenneth	CI	Pharmacy
Prof. Jun Yu	CI	Medicine and Therapeutics
Prof. Lawrence William Baum	NDR	Pharmacy
Prof. Ho-Yin Chan, Edwin	NDR	Biochemistry (Science)
Prof. Fung-Kum Chiu, Helen	NDR	Psychiatry
Prof. Wai-Sau Chung, Dicky	NDR	Psychiatry
Prof. Chi-Yui Kwok, Timothy	NDR	Medicine and Therapeutics
Prof. Chiu-Wa Lam, Linda	NDR	Psychiatry
Prof. Kwok-Fai Lau	NDR	Biochemistry (Science)
Prof. Hon-Leung Lee, Vincent	NDR	Pharmacy
Prof. Kai-Shun Leung, Christopher	NDR	Ophthalmology
Prof. Man-Chim Li, Albert Martin	NDR	Paediatrics
Prof. Ho-Keung Ng	NDR	Anatomical and Cellular Pathology
Prof. Chi-Pui Pang, Calvin	NDR	Ophthalmology
Prof. Chi-Chiu Wang, Ronald	NDR	Obstetrics and Gynaecology
Prof. Yi-Xiang Wang	NDR	Radiology
Prof. Jean Woo	NDR	Medicine and Therapeutics
Prof. Che-Yuen Wu, Justin	NDR	Medicine and Therapeutics
Prof. Chi-Kong Yeung	NDR	Adjunct Associate Professor, School of Biomedical Sciences
Prof. Chung-Ngor Chan, Juliana	RDE	Medicine and Therapeutics
Prof. On-Kei Chan, Angel	RDE	Chemical Pathology Lab, Queen Elizabeth Hospital
Prof. Kwong-Wai Choy, Richard	RDE	Obstetrics and Gynaecology
Prof. Wei Ge	RDE	Cell & Molecular Biology Programme
Prof. Ting-Fan Leung	RDE	Paediatrics
Prof. Ching-Wan Ma, Ronald	RDE	Medicine & Therapeutics
Prof. Pak-Cheung Ng	RDE	Paediatrics
Prof. Kai-Ming Chan, Cavor	SCR	Orthopaedics and Traumatology
Prof. Wing-Hoi Cheung, Louis	SCR	Orthopaedics and Traumatology
Prof. Po-Yee Lui, Pauline	SCR	Orthopaedics and Traumatology
Prof. Wai-Sang Poon	SCR	Surgery
Prof. Ling Qin	SCR	Orthopaedics and Traumatology
Prof. Suk-Ying Tsang, Faye	SCR	Biochemistry (Science)
Prof. Gang Xu	SCR	Medicine and Therapeutics
Prof. Zhen-Yu Chen	VMB	Biochemistry (Science)
Prof. Brian Tomlinson	VMB	Medicine and Therapeutics
Prof. Song Wang	VMB	Surgery
Prof. Ka-Sing Wong, Lawrence	VMB	Medicine and Therapeutics
Prof. Wai-Kwok Yip, Gabriel	VMB	Medicine and Therapeutics
Prof. Cheuk-Man Yu	VMB	Medicine and Therapeutics

Notes:

- * CI: Cancer and Inflammation
- NDR: Neuro-degeneration, -development and Repair
- RDE: Reproduction, Development and Endocrinology
- SCR: Stem Cell and Regeneration
- VMB: Vascular and Metabolic Biology

Appendix 2

List of Publications for the period between 1 June 2009 and 30 June 2010[^] by members of SBS

Scholarly Books, Monographs and Chapters

1. PANG Alan Lap-yin; MARTIN Malcolm M.; MARTIN Arlene and CHAN Wai Yee. (2009) "Chapter 22: Molecular Basis of Diseases of the Endocrine System." *Molecular Pathology: The Molecular Basis of Human Disease*. Academic Press ed. by Coleman WB and Tsongalis GJ. pp.435-464. Amsterdam, Netherlands: Elsevier.
2. HU Miao; MAK W. L. Valiant; CHU Ten Wah Tanya; WAYE Mary Miu Yee and TOMLINSON Brian. (2009) "Pharmacogenetics of HMG-CoA reductase Inhibitors: Optimizing the Prevention of Coronary Heart Disease". *Current Pharmacogenomics and Personalized Medicine*. vol.7, pp.1-26. Bentham Science Publishers.
3. NG Tzi Bun; LAM Sze Kwan; CHEUNG Chi Fai Randy; WONG Ho; WANG He Xiang; NGAI Hung Kui; NGAI Hung Kui; YE Xiao Juan and FANG Fei. (2010) "Therapeutic use of caper (*Capparis spinosa*) seeds". *Nuts and Seeds in Health and Disease* ed. by Prof VR Preedy, RR Watson and VB Patel.
4. LEUNG Po Sing and CHENG Qianni. (2010) "The Novel Roles of Glucagon-Like Peptide-1, Angiotensin II, and Vitamin D in Islet Function". *The Islets of Langerhans (Advances in Experimental Medicine and Biology)* Vol . 654 ed. by Md. S. Islam. pp.337-359. Springer Science Business Media B.V.
5. PANG Alan Lap-yin and CHAN Wai Yee. (2010) "Molecular Basis of Diseases of the Endocrine System". *Essential Concepts in Molecular Pathology* ed. by William B. Coleman & Gregory J. Tsongalis. pp.289-307. United States of America: Academic Press.
6. ZHAO Zhongzhen (Editor-in-Chief); XIAO Peigen (Editor-in-Chief); KOH Hwee Ling (Asso-Editor-in-Chief); HUNG S.J. Fanny (Assoc-Editor-in-Chief); GUO Ping (Assoc-Editor-in-Chief); LIN Ge (Assoc-Editor-in-Chief) and XUE C.L. Charlie (Assoc-Editor-in-Chief). (2010) *Encyclopedia of Medicinal Plants*. vol.1-4 Hong Kong SAR: World Publishing Corporation

Peer-reviewed Journal Publications

1. TSE Wai Pui; CHENG Hon Ki Christopher; CHE Chun Tao; ZHAO Ming; FAN Rui-qiang and LIN Zhixiu. (2009) "Realgar-mediated growth inhibition on HaCaT human keratinocytes is associated with induction of apoptosis". *International Journal of Molecular Medicine* vol.24 no.2, pp.189-196.
2. YIP Thomas Y. C.; CHOOK Ping; KWONG S. K.; WONG Edmond M. L.; CHENG W.; LI J. K. Y.; YU A. W. Y.; SZETO C. C.; CHAN Yan Keung Thomas; FUNG Kwok Pui; LEUNG Ping Chung and WOO Kam Sang. (2009) "Adjunctive Danshen (丹参) and Gegen (葛根) Therapy Improves Atherogenic Process: A Final Report of Double-blind Placebo Control Trial in High Risk Hypertension". *Journal of the Hong Kong College of Cardiology* 2009 Hong Kong College Cardiology Best Presentation Award vol.17 Supp 1 pp.12. Hong Kong SAR.
3. KWONG Joseph; CHAN Leung Franky; WONG Kwong Kwok; BIRRER Michael J; ARCHIBALD Kyra M; BALKWILL Frances R; BERKOWITZ Ross S and MOK Samuel C. (2009) "Inflammatory Cytokine Tumor Necrosis Factor Confers Precancerous Phenotype in an Organoid Model of Normal Human Ovarian Surface Epithelial Cells". *Neoplasia* vol.11 no.6, pp.529-541.
4. LIN Ge; LI Song Lin; LI Mi; LI Na; CHAN Sun Kin Sunny; CHAN Wood Yee and ZHAO Zhong Zhen. (2009) "Qianliguang (*Senecio scandens*) Safety Dilemma: Dose Is the Kay?". *Planta Medica* vol.75, pp.1107-1111.
5. LEUNG Cham Fai; WANG Yixiang; WANG Haohao; XUAN Shouhu and CHENG Hon Ki Christopher. (2009) "Biological and Magnetic Contrast Evaluation of Shape-Selective Mn-Fe Nanowires". *IEEE Transactions on Nanobioscience* vol.8 no.2, pp.192-198.

6. FUNG Yin Wan Wendy; CHOW Hoi Yee; LAW Tik Wan Patrick; DONG Biao and KWAN Hoi Shan. (2009) "Development of a low-cost polymerase chain reaction -based method for studying differentially expressed genes in developing rice leaves". *Journal of Integrative Plant Biology* vol.51 pp.614-621.
7. DONG Qingming; LIU Zheng; CHEN Yangchao; CHAN Chu Yan; LIN Marie C; KUNG Hsiang Fu; CHAN Lik Yuen Henry; SUNG Joseph Jao Yiu and HE Mingliang. (2009) "High level virion production and surface antigen expression with 1.5 copies of hepatitis B viral genome". *Journal of Virological Methods* vol.159 no.2, pp.135-140.
8. YU Le; WU Ka Kei; LI Zhijie; LIU Qicai; LI Haitao; WU Yachun and CHO Chi Hin. (2009) "Enhancement of Doxorubicin Cytotoxicity on Human Esophageal Squamous Cell Carcinoma Cells by Indomethacin and 4-[5-(4-Chlorophenyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl]benzenesulfonamide (SC236) Via Inhibiting P-Glycoprotein Activity". *Molecular Pharmacology* vol.75 no.6, pp.1364-1373.
9. WANG Yiqun; HUANG Yu; LAM S.I. Karen; LI Yiming; WONG Wing Tak; YE Hongying; LAU Chi Wai; VANHOUTTE Paul M. and XU Aimin. (2009) "Berberine Prevents Hyperglycemia-induced Endothelial Injury and Enhances Vasodilatation via Adenosine Monophosphate-activated Protein Kinase and Endothelial Nitric Oxide Synthase". *Cardiovascular Research* vol.82 no.3, pp.484-492.
10. XU Zheng; CHAN Ho Yin; LAM Wai Ling; LAM Kwok Ho; LAM Suk Mi Levina; NG Tzi Bun and AU Wing Ngor Shannon. (2009) "SUMO Proteases: Redox Regulation And Biological Consequences". *Antioxidants & Redox Signaling* vol.11 no.6, pp.1453-1484.
11. HE Dan; ZHAO Lin; LI Linfang; LIU Huaijun; ZHANG Lihong and YEW Tai Wai David. (2009) "Changes of Blood Flow Perfusion by MR and NF- κ β Expression in the Region of Perihematoma After Experimental Intracerebral Hemorrhage: a Correlation Study". *International Journal of Neuroscience* vol.119 no.6, pp.806-814.
12. LIU Xiaochun; ZHU Pei; SHAM Wai Yan; YUEN Man Leuk; XIE Chuanming; ZHANG Yong; LIU Yun; LI Shuisheung; HUANG Xigui; CHENG Hon Ki Christopher and LIN Haoran. (2009) "Identification of a Membrane Estrogen Receptor in Zebrafish with Homology to Mammalian GPER and its High Expression in Early Germ Cells of the Testis". *Biology of Reproduction* vol.80 no.6, pp.1253-1261.
13. CHEUNG Hang Kei; WONG Ho and NG Tzi Bun. (2009) "Musa Acuminata (Del Monte Banana) Lectin Is a Fructose-binding Lectin with Cytokine-inducing Activity". *Phytomedicine* vol.16 no.6-7, pp.594-600.
14. WONG Miu Fong; CHOW Wai Ming Alison; AU Chak Leung; WONG Chun Cheung and KO Wing Hung. (2009) "Apical Versus Basolateral P2Y6 Receptor-Mediated Cl- Secretion in Immortalized Bronchial Epithelia". *American Journal of Respiratory Cell and Molecular Biology* vol.40 no.6, pp.733-745.
15. ZHANG Zesheng; WANG Hao; JIAO Rui; PENG, Cheng; WONG Yin Mei; YEUNG Sai Ying Venus; HUANG Yu and CHEN Zhenyu. (2009) "Choosing Hamsters but not Rats as a Model for Studying Plasma Cholesterol-lowering Activity of Functional Foods". *Molecular Nutrition & Food Research* vol.53 pp.921-930.
16. LEUNG Kwong Sak; LEE Kin Hong; WANG, JINFENG; NG Eddie Yt; CHAN H.L.Y.; TSUI Kwok Wing; MOK Shu Kam Tony; TSE Chi Hang and SUNG Joseph Jao Yiu. (2009) "Data mining on HBV data". *IEEE/ACM Transactions on Computational Biology and Bioinformatics*.
17. LI Wai Sum Rachel; SETO Sai Wang; AU Lai Shan; KWAN Yiu Wa; CHAN Shun Wan; LEE Ming Yuen Simon; TSE Chung Ming and LEUNG Pak Heng George. (2009) "Inhibitory Effect of Nonsteroidal Anti-Inflammatory Drugs on Adenosine Transport in Vascular Smooth Muscle Cells". *European Journal of Pharmacology* vol.612 no.1-3, pp.15-20.
18. WU Ka Kei; VOLTA Viviana; CHO Chi Hin; WU Yachun; LI Hai Tao; YU Le; LI Zhijie and SUNG Joseph Jao Yiu. (2009) "Repression of Protein Translation and mTOR Signaling by Proteasome Inhibitor in Colon Cancer Cells". *Biochemical and Biophysical Research Communications* vol.386 no.4, pp.598-601.

19. LI H. X.; SZE S. C. w.; TONG Y. and NG Tzi Bun. (2009) "Production of Th1- and Th2-dependent Cytokines Induced by the Chinese Medicine Herb, *Rhodiola algida*, on Human Peripheral Blood Monocytes". *Journal of Ethnopharmacology* vol.123 no. 2, pp. 257-266.
20. CHAK Chun Pong; XUAN Shouhu; MENDES M Paula; YU Jimmy C.; CHENG Hon Ki Christopher and LEUNG Cham Fai. (2009) "Discrete Functional Gold Nanoparticles: Hydrogen Bond-Assisted Synthesis, Magnetic Purification, Supramolecular Dimer and Trimer Formation". *ACS Nano* vol.3 pp.2129-2138.
21. LI Peng; WU Ka Kei; WONG Pui Shan Helen; ZHANG Shu Tian; YU Le and CHO Chi Hin. (2009) "Chloroform Extract of Cigarette Smoke Induces Proliferation of Human Esophageal Squamous-Cell Carcinoma Cells: Modulation by β -Adrenoceptors". *Drug and Chemical Toxicology* vol.32 no.3, pp.175-181.
22. HUANG Xigui; HUI N Y Michelle; LIU Yun; YUEN S H Don; ZHANG Yong; CHAN Wood Yee; LIN Haoran; CHENG Shuk Han and CHENG Hon Ki Christopher. (2009) "Discovery of a Novel Prolactin in Non-Mammalian Vertebrates: Evolutionary Perspectives and its Involvement in Teleost Retina Development". *PLoS ONE* vol.4 no.7 pp. e6163.
23. YUNG Him Shun; CHOW Bing Shui; LAI Ka Hang and WISE Helen. (2009) "Gi-coupled Prostanoid Receptors are the Likely Targets for COX-1-generated Prostanoids in Rat Pheochromocytoma (PC12) Cells". *Prostaglandins, Leukotrienes and Essential Fatty Acids* vol.81 no.1 pp.65-71.
24. CHAN Wood Yee; NG Tzi Bun; LAM Js; WONG Ho; CHU Kin Tak; NGAI Hung Kui; LAM Sze Kwan and WANG He Xiang. (2009) "The mushroom ribosome-inactivating protein lyophyllin exerts deleterious effects on mouse embryonic development in vitro". *Appl Microbiol Biotechnol* 85(4):985-993.
25. LAM Fu Yuen; NG Sau Kuen; LAU Tai Wai; LAU Kit Man; LEE Yuk Ha; LEUNG Ping Chung and FUNG Kwok Pui. (2009) "Does Diabetes Affect The Development of Adjuvant-induced Arthritis in Rats?". *Inflammation Research* Vol.58 Suppl.2 pp.S115-S116.
26. ZHANG G. Q.; SUN J.; WANG H. X. and NG Tzi Bun. (2009) "A Novel Lectin with Antiproliferative Activity from the Medicinal Mushroom *Pholiota Adiposa*". *Acta Biochimica Polonica* vol.56 no.3, pp.415-421.
27. LI Ming; WANG Jide; NG Samuel S.M.; CHAN Chu Yan; HE Mingliang; FANG Yu; LAI Lihui; SHI Chao; CHEN Yangchao; YE W Tai Wai David; KUNG Hsiang Fu and LIN Marie Chia-Mi. (2009) "Adenosine Diphosphate-Ribosylation Factor 6 is Required for Epidermal Growth Factor-induced Glioblastoma Cell Proliferation". *Cancer* vol.115 no.21 pp.4959-4972.
28. TANG Ming-kuen Patrick; ZHANG Dong-mei; BUI XUAN Ngoc-ha; TSUI Kwok Wing; WAYE Mary Miu Yee; KONG Siu Kai; FONG Wing Ping and FUNG Kwok Pui. (2009) "Photodynamic Therapy Inhibits p-glycoprotein Mediated Multidrug Resistance via JNK Activation in Human Hepatocellular Carcinoma Using the Photosensitizer Pheophorbide a Molecular". *Cancer* vol.8 no.56, pp.1-12.
29. MOORMAN J.; ZHANG Y.; LIU B.; LESAGE G.; CHEN Yangchao; STUART C. (2009) "HIV-1 gp120 primes lymphocytes for opioid-induced, beta-arrestin 2-dependent apoptosis". *Biochim Biophys Acta*. vol.1793 no.8, pp.1366-1371.
30. LUAN Ju; YUAN J.; LI Xiangyong; LI X.; JIN S.; LIAO M.; ZHANG H.; XU C.; HE Q.; WEN B.; ZHONG X.; CHEN X.; CHAN Lik Yuen Henry; SUNG Joseph Jao Yiu; ZHOU B. and DING Chunming. (2009) "Multiplex detection of 60 hepatitis B virus variants by maldi-tof mass spectrometry". *Clinical Chemistry* vol.55 no.8, pp.1503-1509.
31. LI Qi; WONG Ho; LU Gang; ANTONIO Gregory; YEUNG Kw David; NG Tzi Bun; FORSTER Elizabeth Lucy and YE W Tai Wai David. (2009) "Gene Expression of Synaptosomal-associated Protein 25 (SNAP-25) in the Prefrontal Cortex of the Spontaneously Hypertensive Rat (SHR)". *Biochimica et Biophysica Acta* vol.1792 no.8, pp.766-776.
32. WANG XIN; LEE Yuk Wai; OR Mei Yu and YEUNG Hok Keung John. (2009) "Effects of Major Tanshinones Isolated from Danshen (*Salvia miltiorrhiza*) on Rat CYP1A2 Expression and Metabolism of Model CYP1A2 Probe Substrates". *Phytomedicine* vol.16 no.8, pp.712-725.

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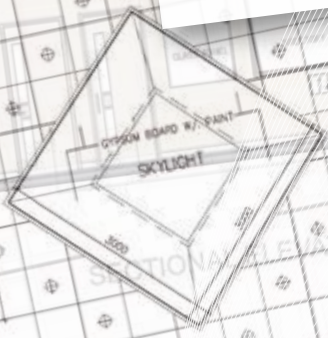
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Comments and Editorials

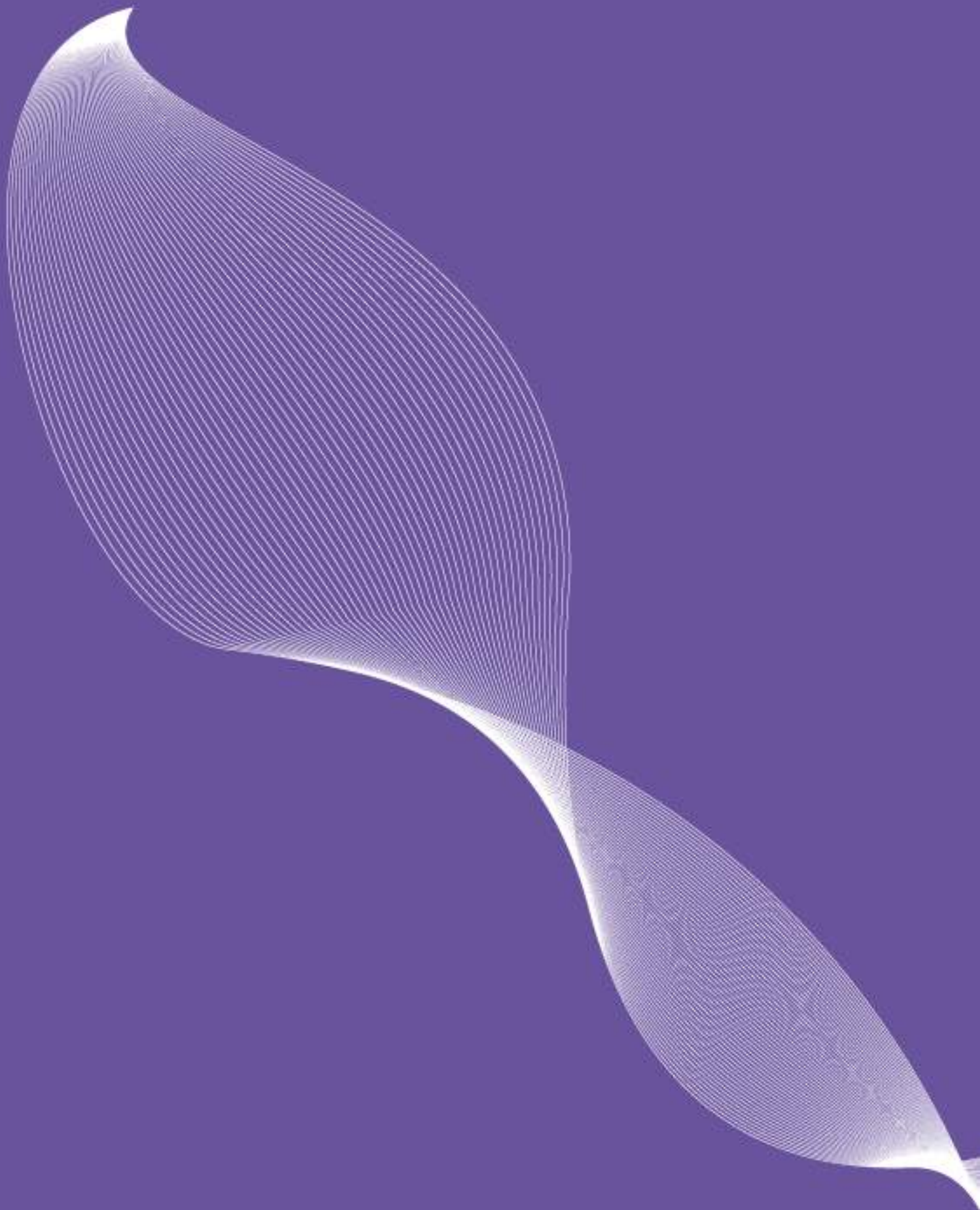
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