$500 million to boost OneHealth

“Mouth to Snout” Cornell’s Dan Fletcher teaches CPR

Dr Alan Taylor from Jet Navigator to Anaesthetist

College of Veterinary Medicine and Life Sciences in collaboration with Cornell University
It has barely been a year, but our BVM students have certainly made their mark – they are presently enjoying animal husbandry experiences with our partners at Cornell’s College of Veterinary Medicine, mucking in with what goes on on farms, and also mucking out (the stables). The timing has been perfect for them, lambs are being born, foals are on the ground and they have watched a calf being born and the weather has been kind.

The students have now completed the first year of the studies at CityU and excelled – more than half of the class are on the Dean’s list, a sign of them doing exceedingly well academically. A new cohort for start in 2018 has now also been selected, and we are looking forward to meeting them in September for the start of the academic year.

Our facilities’ development is keeping pace with the roll-out of the programme – the Veterinary Diagnostic Laboratory is now providing a full service to veterinary clinics in Hong Kong and further afield, actively participating in research and preparing to engage in teaching of our BVM.

Renovations at our brand new clinic in Sham Shui Po are nearing the end, with a move of the CityU-owned clinic from the old site at Liberty Avenue to new quarters to be expected before the end of the year.

Planning of our dairy farm is advancing, with plans already completed and regulatory approvals now being sought.

In the meantime, we have been busy recruiting more wonderful faculty from around the world, some of whom you’ll meet in the current issue of our newsletter.

Enjoy the reading, and join us at one of our many educational events.

Professor Michael P. Reichel
Dean

院長的話

短短一年之間，我們的獸醫學學士（BVM）課程學生碩果累累。現正於跟我們結盟的美國康奈爾大學動物醫學院享受畜牧生活，在農場群策群力，將羊兒打掃乾淨。這是他們的美好時光；羊兒呱呱落地，小馬剛學走路，還在風光明媚的天氣下看著小牛誕生。

這班學生於城大完成一年級課程，成績令人喜出望外——超過半數學員獲得列入院長嘉許名單，證明他們的努力表現出眾拔萃。我們期待 2018 年 9 月新學年開始時，迎接新加入的新一屆學生。

這運用我們的課程陸續展開，那邊廂學院設施也發展得如火如荼，動物醫療檢驗中心已為香港及鄰近地區的獸醫診所提供全面服務，並積極參與我們的獸醫學學士課程的教學與研究。

我們位於深水埗的全新診所裝修工程完成在即，因此位於自由道的城大自資診所有望於今年年底遷往新址。

我們位於深水埗的全新診所裝修工程完成在即，因此位於自由道的城大自資診所有望於今年年底遷往新址。

規劃我們的奶牛場項目也如期推行，規劃工作已經完成，並正申請監管部門的批准。

與此同時，我們忙碌於世界各地招聘頂尖的教職員。今期通訊會為大家介紹其中幾位。

希望您享受今期通訊，也會參與我們形形色色的教育活動。

院長
禮哲教授

短長時間,我們的獸醫學學士(BVM)課程學生碩果累累。現正於跟我們結盟的美國康奈爾大學動物醫學院享受畜牧生活，在農場群策群力，將羊兒打掃乾淨。這是他們的美好時光；羊兒呱呱落地，小馬剛學走路，還在風光明媚的天氣下看著小牛誕生。

這班學生於城大完成一年級課程，成績令人喜出望外——超過半數學員獲得列入院長嘉許名單，證明他們的努力表現出眾拔萃。我們期待 2018 年 9 月新學年開始時，迎接新加入的新一屆學生。

這運用我們的課程陸續展開，那邊廂學院設施也發展得如火如荼，動物醫療檢驗中心已為香港及鄰近地區的獸醫診所提供全面服務，並積極參與我們的獸醫學學士課程的教學與研究。

我們位於深水埗的全新診所裝修工程完成在即，因此位於自由道的城大自資診所有望於今年年底遷往新址。

我們位於深水埗的全新診所裝修工程完成在即，因此位於自由道的城大自資診所有望於今年年底遷往新址。

規劃我們的奶牛場項目也如期推行，規劃工作已經完成，並正申請監管部門的批准。

與此同時，我們忙碌於世界各地招聘頂尖的教職員。今期通訊會為大家介紹其中幾位。

希望您享受今期通訊，也會參與我們形形色色的教育活動。

院長
禮哲教授
A $500-million donation from the Hong Kong Jockey Club Charities Trust (the Trust) to City University of Hong Kong (CityU) will be used to build a top-notch facility for One Health in Hong Kong. It is the largest single donation received by the University in its 33-year history and the Jockey Club One Health Tower will house Hong Kong’s first College of Veterinary Medicine and Life Sciences. One Health is also a core focus of the interdisciplinary research identified in CityU’s 2015–2020 Strategic Plan.

The College will also be named The Jockey Club College of Veterinary Medicine and Life Sciences, a strategic initiative of CityU developed in collaboration with Cornell University, our long-term academic partner. The aim is to create a world-class institution that will enhance CityU’s research capabilities, train high-level veterinary professionals, and address critical public health issues under the One Health paradigm.

Officiating at the ceremony was Chief Secretary for Administration of the HKSAR Government, the Honourable Mr. Mathew Cheung kin-chung, who commented that “the global scientific community has to gear up for the challenges ahead by adopting a more holistic approach in health risk management which can be achieved by further developing the ‘One Health’ concept. The establishment of the One Health Tower is therefore a timely and wise move. The government recognises that expenditure on education is the most meaningful investment for our future and we will continue to give full support to the researchers and students of local universities.”

President of CityU, Professor Kuo, added that the Chief Executive of the HKSAR had expressed concerns in her 2017 Policy Speech about public health challenges presented by antimicrobial resistance and the sustainable development of local farms and fisheries in Hong Kong.

“In response to these local and global challenges, the Trust’s donation to CityU will have a transformational impact on boosting research, education and innovation in veterinary medicine and life sciences at CityU through working with the Government, NGOs and community partners,” the President said.

Cornell University’s Dean of College of Veterinary Medicine, Professor Lorin D. Warnick, who could not join the ceremony, sent his congratulatory message to the Trust, Professor Kuo and CityU.

“Cornell University’s College of Veterinary Medicine is looking forward to working with all of you to train generations of veterinary students and scientists to provide these critical services to the people of Hong Kong and mainland China, and to set the standard for excellence in veterinary medicine and One Health science throughout Asia.” Professor Warnick said.

The 12-storey Tower, with a floor area of approximately 16,500 square metres, will add extra space for learning and research, an elegant 1,500 seat-auditorium for international conferences and cultural performances, and an enhanced sports hall for training. The Tower is planned for completion in the last quarter of 2022.
About the Hong Kong Jockey Club Charities Trust

Founded in 1884, The Hong Kong Jockey Club is a world-class racing club that acts continuously for the betterment of our society. The Club has a unique integrated business model, comprising racing and racecourse entertainment, a membership club, responsible sports wagering and lottery, and charities and community contribution. Through this model, the Club generates economic and social value for the community and supports the Government in combating illegal gambling. It is Hong Kong’s largest single taxpayer, one of the city’s major employers and one of the world’s top ten charity donors.

Working with Government, non-governmental organisations and community partners, the Club is committed to improving the quality of life of Hong Kong people through its Charities Trust donations, and providing immediate relief to those most in need. The Trust also proactively seeks out the root causes of social issues and brings multiple and cross-sectoral parties together to tackle them, pioneering innovative approaches that transcend disciplines and skills. While the Trust continues to fund a wide range of projects, it is placing special emphasis on four areas of strategic focus:

- **Youth**  Empowering youth for a hopeful future  培養有夢未來
- **Elderly**  Building an age-friendly Hong Kong  構建年齡友善城市, 推動長者身心健樂颐年
- **Sports**  Promoting active participation and sportsmanship, making sports fun and accessible to all  注入創新元素, 鼓勵全城運動, 推廣體育精神
- **Arts, Culture & Heritage**  Building a culturally vibrant Hong Kong, enriching lives and promoting social inclusion  充滿文化活力、豐富生活、推動創意共融

香港賽馬會慈善信託基金簡介

香港賽馬會（「馬會」）成立於 1884 年，是致力建設更美好社會的世界級賽馬機構。馬會透過其綜合會所、馬場娛樂及社會責任基金、慈善及社會責任基金、以及社會責任基金、保險及社會責任基金、體育及社會責任基金，竭盡所能推動社會發展。馬會是香港最大的單一慈善機構，也是香港主要贊助之一，同時位列全球十大慈善機構之一。

馬會透過其慈善信託基金，致力與政府、非政府組織及社區機構合作，改善香港人生活質素。同時為有需要人士提供適當的支援，以及主動探討及解決社會問題的根源，與不同界別機構合作，發展具創新的解決方案。香港賽馬會慈善信託基金會繼續落實多個慈善項目，亦策略性地推動四大策略的工作，以促進社會的長遠持續發展。

香港賽馬會主席葉錫安博士表示，馬會一直十分重視香港的教育發展。他說：「香港賽馬會一直十分重視香港的教育發展。」

香港賽馬會主席葉錫安博士表示，馬會一直十分重視香港的教育發展。他說：「香港賽馬會一直十分重視香港的教育發展。」
One Down…Five to Go!

After a year of introduction to the wonders of veterinary medicine, students prepare for new challenges ahead…

A collective sigh of relief can virtually be heard from the first batch of 12 Bachelor of Veterinary Medicine (BVM) students as their first academic year comes to a close. During that time - packed with courses ranging from One Health, Animal Ethics, Welfare and Law to Pre-EMs and Husbandry EMS, to name a few - these students have expanded their knowledge about animals and animal care by leaps and bounds.

“We knew something about animals before we became vet students, but what we knew then was like a grain in the universe,” says Toby Chu Ka-to. “Being in the BVM programme, we had to learn a lot about livestock farming - something I had never been exposed to before. It was really intriguing to see how, for example, in reindeer and goat farms, wisdom and science are utilised to care for the animals. These are very interesting things I never knew before.”

Joey Lam Chun-hei, says the first year taught her how to behave around large animals. “I remember I was a bit nervous when I first approached a horse and feral cattle in Hong Kong. Since they are large animals, I knew they could be dangerous if we approached them too quickly or created too much noise around them.”

She recalls an “eye-opening” field trip to the Agriculture, Fisheries and Conservation Department’s Ta Ku Ling Cattle Management Centre. It was there she and her campus mates learnt how to handle equipment like cattle crushes and head balls, how to gauge the age of cattle by looking at their teeth and where to draw blood samples from the animal. She also discovered that cattle are naturally curious and liked sniffing people’s clothes and bags. “This field trip was truly fruitful and a real eye-opener for me,” Joey says.

Tse Ming-yi’s most memorable field trip so far has been to Chong Hing Feral Cattle during a class on Extensive Livestock farming. The trip was basically to teach students how to inspect and determine the condition of the cattle. She says she found the lessons both intriguing and rewarding. “The field trip allowed us to have a small taste of what it would be like working as a government vet.”

Tse says she cannot wait to learn more about animal biology and behaviour in the next academic year. “I think Year Two will prove to be a challenging, yet fruitful year as we learn more about animals and equip ourselves with more knowledge that we’ll be needing as future veterinarians.”

Toby is also looking forward to Year Two. “I am excited we are getting more science courses. I like animals and I enjoy the logic of science. Actually, I would also like to do more extra-mural studies (EMS) because I am really enjoying it now.”

He says lectures can be fun but practical lessons are even more enjoyable. Skills picked during hands-on experiences tend to stick in his mind better and “this is a much more entertaining and efficacious way of learning,” he adds.

Joey says she too would like to have more hands-on experiences in the next academic year and is excited about an upcoming course on Animal Behaviour. She wants to learn how to correctly restrain animals for physical examinations, make diagnoses and prognoses and determine suitable treatments for the patients, as well as communicating with different stakeholders.

For Rachel Lau - who also would like more hands-on experiences - having more vet-related courses in the new academic year excites her. She adds: “I personally think it would be great if we could, in the near future, also have the chance to study exotic animals such as lizards and monkeys apart from the common ones like dogs, cats and horses. This may allow us to explore more possibilities other than taking up mainstream roles of small animal or equine vets, or working for the government.”

Aside from studies, the students have also formed close bonds among themselves. According to Joey, the bond definitely helped her with her studies, often revising for exams or discussing projects and essays together with her course mates. “This is super useful for me as it encourages me to look at an issue in a different perspective.”

Rachel says having good friends around helps keep her motivated. There were times she felt frustrated because of the heavy workload but she keeps reminding herself why she had made the decision to become a vet. “I would also remind myself of how happy I was when I first got into this programme. That happiness and determination have motivated me to carry on.

However, it is Aquaculture - which is being offered in Year Two - that has greatly piqued her interest. “Aquaculture is a quickly expanding industry and it plays an important role in global food supply. I would like to learn more about sustainable aquaculture practices, animal handling skills related to fish welfare and food safety issues relevant to this industry.”

For Rachel Lau - who also would like more hands-on experiences - having more vet-related courses in the new academic year excites her. She adds: “I personally think it would be great if we could, in the near future, also have the chance to study exotic animals such as lizards and monkeys apart from the common ones like dogs, cats and horses. This may allow us to explore more possibilities other than taking up mainstream roles of small animal or equine vets, or working for the government.”

Aside from studies, the students have also formed close bonds among themselves. According to Joey, the bond definitely helped her with her studies, often revising for exams or discussing projects and essays together with her course mates. “This is super useful for me as it encourages me to look at an issue in a different perspective.”

Rachel says having good friends around helps keep her motivated. There were times she felt frustrated because of the heavy workload but she keeps reminding herself why she had made the decision to become a vet. “I would also remind myself of how happy I was when I first got into this programme. That happiness and determination have motivated me to carry on.
Knowing that I have my good friends studying alongside me has also been part of the reason why I have never felt too stressed and lonely, since we can support each other and make studying less boring and isolated.

Toby admits that before CityU Vet College, he had not had the opportunity of meeting foreign students. Now, with a mix of local and foreign campus mates, he realises that, “as a Hongkonger”, he has to make the effort to befriend everyone. “I took the first step, and I think I’m getting along well with them,” he says.

Tse likes it that the first batch is small. “Being in a small group, I always felt more willing to share my thoughts and opinions during class. This is exceptionally true in classes that require critical-thinking. In such settings, since everyone is actively participating in class, there is rapid exchange of ideas between students and teachers, which I believe is highly beneficial to students.”

What about the teaching staff at CityU Vet College? Well, the students have given the thumbs up, describing their teachers as “knowledgeable, kind and understanding”, with some going the extra-mile to help students with additional tutorial classes and exercises. Tse sums it up: “After grasping our learning pace and interests, I could really see the professors adjusting their teaching pace accordingly.”

These 12 students – Hong Kong’s first ever students to take up veterinary medicine at City University – have also earned high praise from their teachers. “Overall, our students did very well both academically and socially,” says Professor Sophie St-Hilaire, Professor of Aquatic Animal Health. “The veterinary curriculum is rigorous so students have to work hard. It was also the first year of university for most of our veterinary students so they had the additional challenge of coping with this change.”

Professor St-Hilaire says teaching vet students in North America and CityU is very similar. Students here are just as eager and enthusiastic to learn as their counterparts overseas, she adds.

Dr. Barbara Padalino, Assistant Professor in Animal Behaviour and Welfare, agrees that the vet curriculum is quite intense and demanding but the students, being very smart, have coped well. “They passed the exams with good marks,” she says.

Dr. Padalino has had experience teaching in Europe and Australia, but it is her first time teaching in Asia. “I find the students here very polite, but a bit shy. However, I have been able to create a very good relationship with them and we were able to have very interactive lectures and tutorials.”

The second intake of students for the BVM programme in September 2018 is expected to number 20.
為香港人更應有待客之道，說：「我會主動認識他們，大家相處得很好。」

謝明懿喜歡第一屆學生人數不多，「我在小組分享所思所想時更加自如，這種氣氛對講究批判思考的課堂特別重要，大家會更積極投入，師生之間譁譁交流意見，我相信這對學生十分有益。」

這班學生對城大動物醫學及生命科學院的教學又有何評價呢？他們都舉起拇指，形容教師「知識豐富、友善包容」，有些教師甚至增加導修課及練習，以協助學生提升水平。謝明懿總結說：「這些教授掌握我們的學習進度和興趣後，會按個別情況調節自己的教學節奏。」

這 12 位香港首屆城大獸醫學學士學生也令他們的教師讚不絕口。

水產動物健康福利沈藹莉教授說：「整體而言，我們的學生在學術上和社交上都表現出色。獸醫課程要求嚴格，他們要十分努力，而這便是大部分人的第一年大學生涯，更要努力適應改變。」

沈藹莉教授認為，在北美和城大教授獸醫學十分相似，本地學生跟外地學生都積極追求知識。

動物行為及福利助理教授 Barbara Padalino 同意獸醫課程緊湊嚴格，樂見這班聰明的學生應付自如，她說：「他們都以好成績通過考試。」

Padalino 教授曾於歐洲和澳洲教學，這是她初次在亞洲工作，「我覺得這兒的學生很有禮貌，有點害羞。不過我們建立了良好的關係後，大家在課堂和導修課都積極參與。」

第一屆 12 位學生的表現出色，其中 7 位獲列入院長嘉許名單。

獸醫學學士課程第二屆學生將於 2018 年 9 月入學，預計錄取 20 人。

CityU’s Centre for Animal Welfare is delighted to be a key party in the organisation of this Universities Federation for Animal Welfare (UFAW) supported Animal Welfare Conference attended by delegates from around the world, together with the Ministry of Primary Industries of the New Zealand Government.

This Conference brings together professionals, academics, researchers and students from different animal sectors, industries and disciplines, ranging from livestock production, zoo and wildlife management, relationships between people and animals, and animal welfare education. This conference not only provides an excellent and much needed intellectual exchange in the Asia region, but also exchange across cultures and building of long-lasting partnerships and friendships.

The aim is to develop ideas for local animal welfare initiatives, supported by local science projects, in order to progress animal welfare at a global level, while taking cultural and environmental differences and constraints into consideration.

城大動物福利中心有幸成為今屆動物福利大學聯盟（UFAW）的動物福利會議主辦者之一。世界各地代表及新西蘭主要產業部應邀參加了這次會議。會議人才濟濟，包括來自動物產品、動物園和野生動物管理、人與動物關係及動物福利教育等等範疇的動物專家、學者、研究員和學生。

是次會議不僅是亞洲區一次難得的學術和文化交流機會，並讓與會者建立長遠夥伴關係和友情。為期兩天的會議也令大家對世界各地如何推廣和實踐動物福利加深認識。

舉辦這項會議，旨在透過當地的科學活動協助推行動物福利措施，從而在兼顧文化及環境的差異及局限之下，於全球層面改善動物權利。
A Day in the Life of a Veterinary Anaesthetist….

Many years ago, on a farm in the UK, a seven-year-old boy watched in awe as a lamb was born, aided by a veterinarian. The little boy decided then and there that he too would become a vet when he grew up. That little boy - Dr Alan Taylor - has since achieved his dream and is now working as a vet, specialising in anaesthesiology, at CityU PAVC in Mongkok.

It is a fact that many do not know what anaesthetists really do. They hardly ever come face-to-face with the clients, but in the operating theatre, out of public view, they are responsible for ensuring that all the vital organs of the patient are working soundly as the surgeon performs the surgery. An anaesthetist is also practically the last person the patient sees before falling unconscious and the first face the patient sees when it wakes up after a medical procedure. Anaesthetists can certainly be described as “unsung heroes” - and Dr Taylor is that “unsung hero”.

Dr Taylor’s working day begins at 9 am but he is usually at the hospital by 8:30 with a hot cup of coffee. “I have to have a cup of coffee every morning,” he laughs. He then gets changed into his working clothes and has a quick check on patients from the day before. Around 9 am, he does rounds and attends a meeting with the surgeons and their assistants, where every operated patient on the checklist is looked at. “We discuss how they’re doing - both clinically and subjectively - and then decide whether or not they’re good enough to be discharged.”

Next, they turn their attention to patients that are coming in on that day. The surgeons decide which needs surgery and a plan is formulated for it.

“I will decide what drugs the patient will have,” Dr Taylor explains. “Usually, a mild sedative is given to relax the patient and an analgesia (pain killer) is given at the same time. Then we render the animal unconscious so that intubation can start.” Intubation is the process of inserting a tube through the mouth and then into the airway so that a patient can be attached to an anaesthetic machine to provide oxygen and anaesthetic gas and be assisted with breathing during the surgery if needed.

Dr Taylor will also check the mucous membrane colour of the patient’s mouth as well as the jaw tone. “For instance, if the jaw is tight, it means the patient is not relaxed enough so it may need a little bit more anaesthetic or pain killer,” he explains.

All the preparations are done outside the theatre. Once Dr Taylor is satisfied, the patient will be wheeled into the theatre, plugged to the machines and tubes and only then will the surgeon be called in. But his job does not end there.

Throughout the surgery, Dr Taylor will monitor the patient like a hawk in case pre-emptive moves are called for. “It’s really important for me to understand what the surgeon is doing. If it seems the procedure is going to be causing the patient more pain, then I have to give more analgesia. Or, if there’s a major blood loss, it’s my job to make sure that I give more blood and fluids to make sure that we don’t lose the patient.”
He will also keep a close watch on the patient’s body temperature, heart activity and blood saturation. He uses a capnograph to monitor the patient’s breathing pattern. “If the patient is breathing out carbon dioxide, then the heart is obviously pumping blood to the lungs. If you see very low carbon dioxide, then something is not quite right.”

There have been some memorable, albeit tense, moments in the theatre. At one time, he had to ensure that he really enjoyed it…because it was “fulfilling” whenever patients leave the hospital to go home. “I had no idea what to expect but patients often come back to thank me for saving their lives,” he says.

In another challenging case, Dr Taylor had to ensure that the lungs of a cat did not collapse during a major operation in which the surgeon had to cut open its chest to get to the horrific abscesses in the lungs. The cat almost arrested on the table but they managed to rescue it and then it goes nicely again.”

Dr Taylor laughs off the “unsung hero” tag, insisting it is all team effort. “The surgeon repairs the problem, the anaesthetist basically allows the surgeon to repair the problem.”

There have been some memorable, albeit tense, moments in the theatre. At one time, he had to...
BMS Laboratory Facilities

The Biomedical Sciences Laboratories occupy over 2500 sq. meter of floor space. The majority of our research laboratories, teaching laboratories, functional rooms, core facilities and equipment core were located were launched in September 2015. They now serve over 220 research staff/students and 180 undergraduate students.

Teaching laboratories for BSc. in Biomedical Sciences and BSc. in Biological Sciences. The teaching laboratories are designed to accommodate 45 students and equipped with state-of-the-art medical analyzers and equipment in four major fields of haematology, clinical chemistry, microbiology and histopathology.

Clinical Diagnostic Instrument Core
Our Clinical Diagnostic Instrument Core is purposely equipped with updated and advanced instrumentation used by commercial clinical laboratories and hospitals to allow our students to familiarise themselves with the operation of these instruments in the university before they enter the commercial sector.

Imaging Core
There are various types of microscopes in the Imaging Core, enabling live cell imaging, single cell dissection and confocal laser scanning microscopy.

Flow Cytometry Core
This core facility supports the use of wide range of flow cytometry techniques, enabling simultaneous and rapid analysis of complex cell population. The high speed cell sorter also enables cell sorting application of different sizes as well as isolation of target cell types out of the population.

Centrifuge Core
The centrifuge core is equipped with different types of centrifuges from bench top to floor standard ultra-speed centrifuges (up to 504000 g-force). Fitted with various types of rotors of different volumes, most of the biological samples can be separated by our centrifuges as small as cells, organelles and vesicles.

High Performance Liquid Chromatography Core
We have two HPLC systems to facilitate the separation of molecules with various chromatography techniques.

Functional rooms include tissue culture rooms, pathogen lab, (Class II), walk-in cold room, autoclave room and washing room which support both teaching and research activities.

Molecular and Genomic Core
Molecular and Genomic Core provides resources to support research needs for high throughput genomics, including real-time PCR systems and Next Generation Sequencers. The Illumina NextSeq 500 Sequencer allows genome-wide experiments to be performed for a wide range of bioinformatics studies.

Research laboratories for faculty members. Our research mainly focuses on the relationships between human health, organisms, and diseases, covering specific areas of life sciences such as molecular and cell biology, genetics and genomics, physiology and systems biology, pharmacology and medicinal chemistry, microbiology and immunology, and epidemiology and public health. Particular research disciplines include: neuroscience, cancer Biology, regenerative medicine, biotherapy and nanomedicine, bioinformatics, one Heath and infectious Diseases.

functional rooms include tissue culture rooms, pathogen lab, (Class II), walk-in cold room, autoclave room and washing room which support both teaching and research activities.

Molecular and Genomic Core
Molecular and Genomic Core provides resources to support research needs for high throughput genomics, including real-time PCR systems and Next Generation Sequencers. The Illumina NextSeq 500 Sequencer allows genome-wide experiments to be performed for a wide range of bioinformatics studies.

Research laboratories for faculty members. Our research mainly focuses on the relationships between human health, organisms, and diseases, covering specific areas of life sciences such as molecular and cell biology, genetics and genomics, physiology and systems biology, pharmacology and medicinal chemistry, microbiology and immunology, and epidemiology and public health. Particular research disciplines include: neuroscience, cancer Biology, regenerative medicine, biotherapy and nanomedicine, bioinformatics, one Heath and infectious Diseases.

Core facilities and equipment
Clinical Diagnostic Instrument Core
Our Clinical Diagnostic Instrument Core is purposely equipped with updated and advanced instrumentation used by commercial clinical laboratories and hospitals to allow our students to familiarise themselves with the operation of these instruments in the university before they enter the commercial sector.

Imaging Core
There are various types of microscopes in the Imaging Core, enabling live cell imaging, single cell dissection and confocal laser scanning microscopy.

Flow Cytometry Core
This core facility supports the use of wide range of flow cytometry techniques, enabling simultaneous and rapid analysis of complex cell population. The high speed cell sorter also enables cell sorting application of different sizes as well as isolation of target cell types out of the population.

Centrifuge Core
The centrifuge core is equipped with different types of centrifuges from bench top to floor standard ultra-speed centrifuges (up to 504000 g-force). Fitted with various types of rotors of different volumes, most of the biological samples can be separated by our centrifuges as small as cells, organelles and vesicles.

High Performance Liquid Chromatography Core
We have two HPLC systems to facilitate the separation of molecules with various chromatography techniques.

Molecular and Genomic Core
Molecular and Genomic Core provides resources to support research needs for high throughput genomics, including real-time PCR systems and Next Generation Sequencers. The Illumina NextSeq 500 Sequencer allows genome-wide experiments to be performed for a wide range of bioinformatics studies.

Research laboratories for faculty members. Our research mainly focuses on the relationships between human health, organisms, and diseases, covering specific areas of life sciences such as molecular and cell biology, genetics and genomics, physiology and systems biology, pharmacology and medicinal chemistry, microbiology and immunology, and epidemiology and public health. Particular research disciplines include: neuroscience, cancer Biology, regenerative medicine, biotherapy and nanomedicine, bioinformatics, one Heath and infectious Diseases.

Core facilities and equipment
Clinical Diagnostic Instrument Core
Our Clinical Diagnostic Instrument Core is purposely equipped with updated and advanced instrumentation used by commercial clinical laboratories and hospitals to allow our students to familiarise themselves with the operation of these instruments in the university before they enter the commercial sector.

Imaging Core
There are various types of microscopes in the Imaging Core, enabling live cell imaging, single cell dissection and confocal laser scanning microscopy.

Flow Cytometry Core
This core facility supports the use of wide range of flow cytometry techniques, enabling simultaneous and rapid analysis of complex cell population. The high speed cell sorter also enables cell sorting application of different sizes as well as isolation of target cell types out of the population.

Centrifuge Core
The centrifuge core is equipped with different types of centrifuges from bench top to floor standard ultra-speed centrifuges (up to 504000 g-force). Fitted with various types of rotors of different volumes, most of the biological samples can be separated by our centrifuges as small as cells, organelles and vesicles.

High Performance Liquid Chromatography Core
We have two HPLC systems to facilitate the separation of molecules with various chromatography techniques.

Molecular and Genomic Core
Molecular and Genomic Core provides resources to support research needs for high throughput genomics, including real-time PCR systems and Next Generation Sequencers. The Illumina NextSeq 500 Sequencer allows genome-wide experiments to be performed for a wide range of bioinformatics studies.
Pre-EMS .... a crucial element for honing practical vet skills

As students of veterinary medicine, it is just not enough to pore over books. One must also get one’s hands dirty very early on, so to speak. That is where extra-mural studies, or EMS, comes in. Hands-on practice with animals while still in college makes up an important component that will not only give them the opportunity to gain real-life work experience, but also considerably improve their university-based studies.

The structure of the EMS programme of CityU’s Bachelor of Veterinary Medicine programme (BVM) is based on that of UK’s Royal College of Veterinary Surgeons and follows the prescribed requirements as set out by the Australian Veterinary Boards Council. Students must complete a prescribed number of weeks of EMS during the 6-year programme. The EMS structure is composed of 12 weeks of Animal Husbandry placements in the first two (‘pre-clinical’) years of the programme and 26 weeks of clinical placement during years three to six.

However, before EMS placements can take place, students will have to undergo Pre-EMS, which are basically preparatory classes for students to learn the very basics of animal husbandry, as Dr Howard Wong, Director of Professional Development and Communications and Director for the Centre for Animal Welfare explains: “Local students have relatively little exposure to animals, especially farm animals, compared to many overseas students and Pre-EMS brings them up to speed in understanding the basics of animal production and husbandry.

“On a chicken farm, for example, they will need to know about the breeds kept locally, which differ from those kept outside Asia. They would also need to know what these chickens eat, how to handle them properly and with confidence and so on. Once the students learn about the rudimentary aspects, then they can begin actual EMS which entails actually working on the farms and doing husbandry work. So Pre-EMS is really a sort of orientation to allow students to perform EMS properly,” he adds.

The EMS programme usually takes place in a work setting, such as a farm and animal shelter. For their Pre-EMS, our BVM students visited the Hong Kong Jockey Club Beas River Equestrian Centre, local pig, chicken and fish farms, a cat welfare and adoption centre - the Lifelong Animal Protection Charity - as well as the Hong Kong Society for Prevention of Cruelty to Animals.

Through on-site visits, students are expected to pick up basic animal handling skills which include identifying an animal by its breed, observing the behaviour of animals, how to approach an animal in a calm manner or how to take out an animal from its cage properly. Students will also learn how farms and animal facilities are run.

EMS placements are crucial as they basically allow students opportunities to further practice and develop their skills. It also helps students to gain more experience and build up their confidence when dealing with clients and members of the veterinary team. In a nutshell, EMS prepares students for work so that as soon as they graduate, they can ‘hit the ground running’.

Additionally, EMS introduces students to the important concept of lifelong learning and reflective practice which, hopefully, will continue as they develop into independent and caring professionals who will continually seek for more knowledge so as to improve the quality of their daily practices and uphold the standards of the veterinary profession as a whole.

Our first batch of BVM students are very lucky when it comes to EMS...they were given the opportunity to spend five exciting weeks at Cornell University in Ithaca, New York, learning about husbandry and management of cattle, sheep and horses. We will have more on their exciting EMS journey in the next issue...so don’t miss it!
獸醫學學生不單要埋首書本，還得及早身體力行，因此他們要修讀校外課程。在大學階段跟動物親身接觸，不單讓他們有機會獲得實際工作經驗，也能提升以大學為基礎的學習。

城大獸醫學學士（BVM）課程的校外課程結構建基於英國皇家獸醫學院的，並遵照澳新獸醫管理局理事會的規定要求。在為期六年的課程內，學生必須完成若干星期的校外課程，包括在課程首兩年（臨床前）進行為期12個星期的動物畜牧業實習，以及在課程第三至第六年完成為期26星期的臨床實習。

然而，學生修讀校外課程之前必須先完成校外課程先修班，讓學生掌握動物畜牧的基礎概念。專業教育及發展兼動物福利中心總監王啟熙獸醫說：「本地學生比外國學生較少接觸動物，尤其是農場動物，而校外課程先修班讓他門更易了解動物生產和畜牧的基本概念。」他補充：「舉例來說，學生在雞場裡學懂本地養殖的雞隻品種跟亞洲以外地區的分別，也要知道飼料和處理雞隻的正確方法。學生掌握這些基本概念後，便可以真正開始校外課程，接觸實際的農場和畜牧工作。因此校外課程先修班是入門途徑，讓學生可以恰當地投入校外課程。」

校外課程先修班：
實習獸醫的必經磨煉

校外課程實習十分重要，讓學生有更多實踐及改良技巧的機會，也建立與顧客及獸醫團隊溝通的經驗和信心。學生透過這些實地考察學會辨認動物品種、觀察動物行為，並獲得冷靜接觸動物和將牠們脫籠等基本處理動物技巧，也會學習農場和動物設施的運作。

此外，校外課程讓學生明白終生學習和反思實踐的哲學，期望他們成為獨當一面的專業獸醫後，仍然會孜孜不倦學習，行醫質素精益求精，堅守獸醫專業的整體水平。

我們第一屆獸醫學學士課程學生十分幸運，校外課程包括遠赴紐約伊薩卡的康奈爾大學度過精彩的五星期，學習牛、羊、馬的畜牧和管理。下期會有更多關於他們多姿多采的校外課程旅程的報道，萬勿錯過！
CityU Veterinary Diagnostic Laboratory is now open and operational, offering microbiology, molecular biology, serology, histopathology, cytology and post mortem services.

The microbiology team led by Dr Vidya Bhardwaj, has identified a number of unique and interesting bacteria using the MALDI-TOF system including: Enterococcus spp resistant to every antibiotic tested against it, Neisseria spp, and Brevibacterium. The broth microdilution method is providing accurate quantitative results for Pasteurella antibiotic sensitivity.

The molecular team, led by Dr Christina To, has developed and used PCR assays to detect Bacillus canis vogelii in canine blood, Mycobacterium genavense in a pigeon and M avium paratuberculosis in a goat. New assays are being developed to identify local pathogens and undertake surveillance to ensure the absence of others.

We also welcome Dr Jeanine Sandy who has joined the pathology team of Dr Allan Kessell and Dr Fraser Hill and brings a wealth of knowledge to our pathology service. The pathologists have been challenged by the unique samples and diseases seen here, including rare skin conditions and neoplasia. Samples from a wide variety of species have been examined including; dogs, cats, mice, rats, crabs, seals, sharks, pigeons, horses and goats, reflecting the biodiversity in Hong Kong.

The establishment of CityU VDL is an important step in the development of veterinary medicine in Hong Kong giving local veterinarians access to the latest veterinary diagnostic equipment coupled with on-site pathologists and technical staff to assist in disease investigation and interpretation of results.
CityU Animal Health Centre

Construction for the new CityU Animal Health Centre at Trinity Towers in Sham Shui Po began on 21 December 2017. The centre will consist of 3 floors with a total area of about 33,000 square feet and will be, by far, the largest companion animal practice in Hong Kong. The construction work is expected to be completed in December 2018 and the clinic is hoping to begin operation in early 2019.

This new clinic is not only designed with state of the art concepts, but also adopts the best veterinary standards from all around the world. There will be a total of 7 operating theatres, 3 minor surgery rooms, a first-of-a-kind in Hong Kong intensive care unit (ICU), a cardiology suite, a brand new physiotherapy area with hydrotherapy capabilities, as well as numerous treatment areas in the new Health Center. There will also be a spay-neuter centre to assist animal charities in neutering their cats, dogs and other companion animals.

The centre will possess the latest diagnostic and treatment technologies in disease management, including a 1.5T magnetic resonance imaging (MRI) system, a new 64 slice CT-scan, 2 C-Arms and 3 Digital X-ray units, as well as the latest anaesthetic and critical care monitoring devices.

The veterinary team consists of general practitioners and specialists including surgery, neurology, dermatology, cardiology, ophthalmology, intensive care and internal medicine. Alternative treatment methods such as acupuncture, physical therapy and holistic medicine will also be available. As is provided by CityU PAVC now, emergency care will be available 24 hours a day.

The centre will also be used to support the CityU College of Veterinary Medicine and Life Science in the future. Audio-visual system and direct connectivity to the University will be incorporated in multiple areas of the clinic to broadcast directly to students, whether they are in the clinic or inside the University lecture halls. The system also provides recording functions for future reference and training.

The centre will also be used to support the CityU College of Veterinary Medicine and Life Science in the future. Audio-visual system and direct connectivity to the University will be incorporated in multiple areas of the clinic to broadcast directly to students, whether they are in the clinic or inside the University lecture halls. The system also provides recording functions for future reference and training.

CityU Animal Health Centre

Located at Trinity Towers in Sham Shui Po, the new CityU Animal Health Centre is scheduled to open in early 2019.

The centre will provide state-of-the-art diagnostic and treatment technologies for diseases, including a 1.5T MRI system, a new 64-slice CT scanner, 2 C-arms and 3 Digital X-ray units. It will also have a state-of-the-art anaesthetic and critical care monitoring system.

The veterinary team will consist of general practitioners and specialists in surgery, neurology, dermatology, cardiology, ophthalmology, intensive care and internal medicine. Alternative treatment methods such as acupuncture, physical therapy and holistic medicine will also be available.

Emergency care will be available 24 hours a day. The clinic will also be used to support the CityU College of Veterinary Medicine and Life Science in the future.
Introducing Dr Jun Li
認識李俊博士

I graduated from Tianjin University with a bachelor degree in physics and then joined Beijing Genomics Institute (BGI) in 2003. I was trained as a bioinformatician in BGI and served as a senior project leader for over 3 years, leading a team focused on comparative genomics, evolution and population genetics.

I received my PhD degree from the University of Hong Kong (HKU) in 2013 working in the fields of comparative genomics/transcriptomics for viruses and bacteria. Afterwards, I joined the lab of Dr. Gianni Panagiotou as a postdoctoral researcher at HKU and then the Hans Knoll Institute in Germany, leading research projects in systems biology and microbiome from human, animal and various other environments.

My personal research interest and experience fits into the research theme of CVMLS. I feel this is the place where I can develop new skills and eventually become a leading researcher in the field of computational biology. Compared with human-health related biomedical research fields, advanced bioinformatics and state-of-the-art computational framework have not yet been applied sufficiently to animal health studies. Besides the economic and social benefits from livestock farming and pet keeping, animal studies will also pave the way for follow-up investigations in human subjects.

Besides contributing high-quality research, I will contribute my expertise in statistics, machine learning, big data mining and computational biology to undergraduate and postgraduate education. I will also supervise PhD students and Postdocs, apply for and manage research grants, and design or participate in inter- or intra-departmental collaborative projects in CityU.

Compared with some other researchers in the veterinary or biomedical fields, I have a strong background in mathematics, bioinformatics algorithms and statistical modeling. I hope to bring the expertise of the state-of-the-art computational biology to our department.

I have been studying the human and animal health-related problem using next-generation sequencing (NGS), and how diet or drugs influence our intestinal microbiota. I have been studying the human and animal health-related problem using next-generation sequencing (NGS), and how diet or drugs influence our intestinal microbiota. 

A fear of loading is innate in horses and can be triggered by a range of stimuli, such as fear of entering an enclosed space, the height of the step leading onto the ramp, and the instability and incline of the ramp. It is these factors that often result in inexperienced horses exhibiting extreme evasive behavior and a strong reluctance to step onto the ramp, and an elevated heart rate is often observed during loading, regardless of the level of experience.

Equine Transportation and Welfare
Thoughts from our newly appointed Assistant Professor in Animal Behaviour and Welfare

本院新任動物行為及福利助理教授Padalino 獸醫解釋
運送對馬匹身心健康的影响

The College is pleased to welcome Dr. Barbara Padalino, an Italian equine veterinarian and an Assistant Professor in Animal Behavior and Welfare at the College of Veterinary medicine and Life Sciences. She is also a lecturer in Animal Science at the University of Bari (Italy) and will be teaching our BVM students animal behavior and welfare. Barbara completed her PhD at the Faculty of Veterinary Science at the University of Sydney on the topic of equine transportation. Barbara’s research interests span a number of topics relating to equine science including behavior, welfare, training, exercise, physiology, and internal medicine. She has published over 100 peer reviewed journal, book chapter and conference papers.

On why transportation for horses is so stressful, Barbara writes “transport stress is caused by a mosaic of stressors which can affect the horse both mentally and physically, causing behavioral and health problems prior, during and/or after trips. The transportation process includes critical stages which can all impact on stress levels: preloading-handling, loading, transport in itself, unloading and adaptation to a new stall/different environment. Each of these stages is a challenging situation for the horse and it is characterized by a differentiated stressor. Preloading-handling is usually a source of mental stress because it means separation from familiar physical and social environments.”

问及Padalino 獸醫，馬匹何以會因運送而身心緊張。她說：「因運送壓力會由數種不同壓力源造成，對馬匹的生理性和心理性都有影響，導致牠們在運送前後過程出現行為和健康問題。運送過程中的各個階段均會影響到壓力水平，包括預準備、裝載、運送、卸載以及運送後馬匹的新環境等。每個階段都有不同的壓力源。對馬匹造成壓力包括：裝載、運送、卸載，以及運送後馬匹的新環境等。而運送後的環境習慣性亦會影響馬匹，導致牠們於運送後出現行為和健康問題。」
Hills supports BVM students with book
希爾思贈書予獸醫學學生

On 13 April 2018, our students were presented with individual copies of Hand et al.’s Small Animal Clinical Nutrition, 5th Edition by Dr. Julie Chen DVM, MS, Professional Veterinary Affairs Manager, Hill’s Pet Nutrition Asia Limited. Hills continues to be extremely supportive of the College of Veterinary Medicine and Life Sciences with sponsorship for CPD seminars as well as webinars. We would like to thank Hills on behalf of our first cohort of BVM students!

Don’t miss the next Hills event with Dr. Susan Little on 20 July 2018 -- Approach to cats with lower urinary tract diseases.

On 13 April 2018, our students were presented with individual copies of Hand et al.’s Small Animal Clinical Nutrition, 5th Edition by Dr. Julie Chen DVM, MS, Professional Veterinary Affairs Manager, Hill’s Pet Nutrition Asia Limited. Hills continues to be extremely supportive of the College of Veterinary Medicine and Life Sciences with sponsorship for CPD seminars as well as webinars. We would like to thank Hills on behalf of our first cohort of BVM students!

Don’t miss the next Hills event with Dr. Susan Little on 20 July 2018 -- Approach to cats with lower urinary tract diseases.

Kakato Entrance Scholarship
By MaxiPro Limited
萬士博 Kakato 入學獎學金成立

Our College is privileged to have the support of MaxiPro (Asia) Limited (MaxiPro), a respected company in the veterinary industry, for the Bachelor of Veterinary Medicine programme by making a generous donation for establishing the “Kakato Entrance Scholarship” for top-performing local freshman admitted to the BVM programme.

Founded by Dr April Fong in 2007, MaxiPro has always been dedicated to providing premium pet products, including food, nutraceutical and pharmaceutical products, as well as medical accessories; with its business covering Hong Kong, Macau, Taiwan, Singapore, Mainland China, and other Asian countries.

Dr Fong, Founder and General Manager of MaxiPro, who is also a veteran of the companion animal industry with more than 20 years of experience, is excited about becoming the first supporter in the industry to work hand in hand with our College in grooming the next generation of veterinary professionals.
Mouth-to-snout...? What might that be, you ask. We have often heard of medics, or even Good Samaritans, applying mouth-to-mouth to humans in cardiac arrest situations. Well, believe it or not, “mouth-to-snout” resuscitation is what your vet would administer to your beloved pets should they get into a similar situation.

Cardiopulmonary resuscitation (CPR) for small animals is not exactly new but experts in the field have fine-tuned the practise over the years and this was the exciting topic during the Continuing Professional Education (CPE) event which kicked off on 28 January 2018.

Dr Daniel Fletcher, from the Cornell University College of Veterinary Medicine, was invited to give an update on CPR at the workshop.

Dr Fletcher is internationally well-known for his revolutionary animal robotic simulation technology and more importantly, for the first evidence-based veterinary CPR guidelines, known as the RECOVER Initiative, which he, together with Dr Manuel Boller, published.

During the workshop - organised by City University of Hong Kong’s College of Veterinary Medicine and Life Sciences - Dr Fletcher explained in detail the RECOVER Initiative to local vets, vet technician as well vet nurses.

Attendees at the workshop were taught how to rapidly recognise patients with cardiopulmonary arrest and properly administer high-quality chest compressions.
using the most up-to-date approaches in dogs and cats. They were also shown how to provide mouth-to-snout or intubated ventilation according to current evidence-based guidelines and utilise effective communication and team skills that will improve their ability to manage emergent and critically ill patients. They were told how to choose the most useful monitoring devices for patients in cardiopulmonary arrest as well as read and interpret the data from the various monitoring devices.

Other helpful tips included how to rapidly diagnose the arrest ECG rhythm to help choose the best ALS therapies for the patient, administer the most effective drugs and other adjunctive therapies for patients with cardiopulmonary arrest and perform lifesaving procedures such as venous cutdown, intraosseous catheter placement and open chest CPR.

Teams of attendees also ran CPR scenarios using high fidelity simulators with heart and lung sounds, palpable pulses and a simulated patient monitor.

Dr Remi Kinoshita, a private vet with a clinic in Happy Valley, was a participant at the CPR workshop and gave the thumbs up. She says such workshops were very useful to consolidate updated information and areas of progress, adding that veterinary CPR was a pertinent subject for all vets and the hospital team.

“Having Dr Fletcher in person to explain the RECOVER Initiative was really helpful,” she says. “He is an effective communicator. The training was very useful to consolidate updated information and areas of progress, adding that veterinary CPR was a pertinent subject for all vets and the hospital team.”

Vet nurse, Daffy Lam Ngai Chau Lam, who also attended the workshop says the CPR course was especially impressive with the animal simulator and all the scenario practices. “It is very useful to practice and review the CPR skills,” she says.

Ms Lam says staff at her clinic have had experience conducting resuscitation on animals, whether during a walk-in emergency or on hospitalized patients. “Our team pretty much has the same protocol as the guidelines in this CPR course.”

She says if no such CPE events are found in Hong Kong - such as the one organised by City University’s College of Veterinary Medicine and Life Sciences - she would constantly have to go online to look for such courses.

“I am always interested in different CPE topics to enhance my knowledge and skills, as well as keeping up with up-to-date information in the veterinary field,” she adds.

Asked what other vet-related topics would she find useful and hope that CityU’s vet school could come up with, she says: “I am quite interested in emergency and critical continuous intensive care. There are not many emergency centres in Hong Kong and I would love to see topics like these.”
Ultrasonography techniques for Veterinary Practitioners

Dr. Heng

Dr. Heng is the section head of diagnostic imaging at Purdue University’s College of Veterinary Medicine. He is a Diplomate of the European College of Veterinary Diagnostic Imaging in 2004 and a Diplomate of the American College of Veterinary Radiology. Dr. Heng’s research interests include ultrasonography of the gastrointestinal-tract, forensic radiology, imaging of neoplasia, and imaging of orthopaedic diseases.

On the 31st of October 2018, a selected group of veterinarians worked with Dr. David Senior and Dr. Allan Kessell to understand the ins and outs of kidney and bladder disease in dogs and cats. Using easy to follow lectures, backed up with practical stations and real life case examples, Dr. Senior and Dr. Kessell ensured that all participants had the opportunity to learn and apply information imparted in the course. The small group format with high teacher-student ratio considerably enhanced the learning experience for the participants. Dr. Vidya Bhardwaj from the Veterinary Diagnostic Laboratory at the City University of Hong Kong, acted as a guest lecturer for the workshop and provided an insight into antimicrobial susceptibility testing.

Waterworks Matters

Workshop on Urinary Disease

A lively and practical workshop was delivered by Dr. Hock Gan Heng, kindly sponsored by the Industrial Promoting Co. Ltd, on 7 and 8 November 2017. This 2-day workshop first covered basic principles and techniques of ultrasonography. After that, Dr. Heng expertly took the participants step-by-step through the examination of the different organs and systems of the abdominal cavity.

Dr. David Senior, BVSc., Dipl. ACVIM SAIM; Dipl. ECVIM-CA

Dr. David Senior, a veterinary graduate from The University of Melbourne, is a specialist in small animal internal medicine as well as urology. His area of specialty is the urinary tract. He has served as the Head of the Department of Veterinary Clinical Sciences for over 15 years, and Associate Dean for 8 years at the School of Veterinary Medicine, Louisiana State University. Having served as Conference Coordinator for the North American Veterinary Conference since the early 1990’s, David is proficient in the skills required to deliver a successful workshop. David is a very sought-after speaker and presents at several prestigious, international conferences every year.

Dr. Allan Kessell

Dr. Allan Kessell is a specialist in abdominal imaging and ultrasound. He is a Diplomate of the American College of Veterinary Radiology in 2003, and a Fellow of the Royal College of Veterinary Surgeons. His clinical and research interests include abdominal imaging in small animals and advanced techniques such as contrast enhanced ultrasound.

Dr. Vidya Bhardwaj

Dr. Vidya Bhardwaj is a specialist in veterinary diagnostic imaging. She is a Diplomate of the American College of Veterinary Radiology and a Diplomate of the American Society of Veterinary Radiology. Her clinical and research interests include abdominal imaging in small animals, as well as antimicrobial susceptibility testing and emerging infectious diseases.
Professor David Hampson awarded the Gilruth Prize

Hampson 教授榮獲澳洲獸醫協會獎項

David Hampson, Chair Professor in Pathobiology and Head of the Department of Infectious Diseases and Public Health in the College of Veterinary Medicine and Life Sciences has been awarded the Gilruth Prize from the Australian Veterinary Association (AVA) at their recent annual conference in Brisbane.

This Gilruth Prize has been awarded annually since 1953. It is named to commemorate the noted veterinarian Dr J.A. Gilruth who was a Dean of the Faculty of Veterinary Science at Melbourne University, the first Chief of the Division of Animal Health, CSIRO, and a leading veterinary authority. The Gilruth Prize is the AVA’s most prestigious award and is given for outstanding service to veterinary science in Australia.

The award to Professor Hampson reflects his output as a veterinary researcher, teacher and senior administrator. Before moving to City University Professor Hampson worked for 31 years at Murdoch University in Perth, Western Australia. He was a Professor of Veterinary Microbiology and the Dean of the School of Veterinary and Life Sciences, which includes an internationally accredited College of Veterinary Medicine.

David is particularly well known for his work on spirochaetal bacteria infecting pigs, poultry and human beings. The newly emerged pig pathogen Brachyspira hampsonii was named to acknowledge his work in this area.

David qualified as a Veterinarian from the Royal Veterinary College, London, and received a PhD from the University of Bristol and a Doctor of Science degree from the University of London. David has received many other prizes and awards over the years. He was awarded Fellowship of the Australian Society for Microbiology, Fellowship of the American Academy of Microbiology, Fellowship of the Royal College of Pathologists, and Fellowship of the Royal College of Veterinary Surgeons. Some other notable prizes received include the Royal Agricultural Society of England Silver Medal, the Ian Clunies Ross Memorial Award, the Frank Fenner Research award, and the G. Norman Hall Gold medal from the Royal College of Veterinary Surgeons.

David Hampson, Chair Professor in Pathobiology and Head of the Department of Infectious Diseases and Public Health in the College of Veterinary Medicine and Life Sciences has been awarded the Gilruth Prize from the Australian Veterinary Association (AVA) at their recent annual conference in Brisbane.

The College of Veterinary Medicine and Life Sciences, CityU Veterinary Diagnostic Laboratory (CityU VDL) and the Hong Kong University of Science and Technology (HKUST) Animal & Pflant Care Facility jointly delivered the first of a series of lectures on the Pathology of Laboratory Animals in December 2017. The event was attended by over 45 laboratory animal veterinarians and technicians from four universities with well-developed laboratory animal research units namely CityU, HKUST, University of Hong Kong and Chinese University of Hong Kong and began with a tour of the recently opened CityU VDL led by Dr. Fraser Hill, the head of the laboratory.

Prof Ralph Bunte, a distinguished professor of pathology from Duke NUS Medical School in Singapore, and who trained at the renowned Walter Reed Army Institute of Research in the USA, gave lectures on neuropathology and the issue of special stains needed to evaluate myelination and axonal changes and mouse necropsy support in a biomedical research facility and the pathology of prevalent mouse diseases. Dr Allan Kessel, a pathologist from CityU VDL talked about the importance of a necropsy programme as part of a holistic sampling plan and why it was necessary to sample normal as well as abnormal samples to develop a library of samples.

Dr Anthony James concluded with a talk on lab animal pathology and the opening of CityU VDL allows us to better sample animal models and how it is crucial in helping the development of laboratory animal units in local universities.
Promotion of animal welfare was the theme for the Canada Pet Day which was held on a lovely sunny day in December 2017 and hosted by the Canadian Government together with CityU’s Centre for Animal Welfare. Pet owners got the opportunity to try the latest Canadian pet food and let their pets roam whilst seeing the superb work done by local animal NGOs. Responsible pet ownership was also promoted by the Agriculture, Fisheries and Conservation Department and pets even got a free massage from Paws in Motion which specializes in veterinary physiotherapy. CityU PAVC Clinic hosted a very popular veterinarian try out stand where kids were taught basic dog anatomy and then allowed to gown up and practice their surgical, bandaging and endotracheal tube insertion skills under the watchful eyes of veterinary specialists Drs. Saskia Quante and Kim Beaulieu.
Hong Kong celebrated World Veterinary Day 2018 with a display in the Run Run Shaw Library at CityU showcasing the vital role of veterinarians in ensuring animal welfare, food safety, food security, safe world trade in animals and animal products as well as protecting animal and public health. The World Veterinary Day was initiated by the World Veterinary Association (WVA) in 2000 in order to celebrate the veterinary profession annually on every last Saturday of April. Jointly held with the Agriculture, Fisheries and Conservation Department (AFCD) and CityU Library, the event kicked off with talks outlining the importance of veterinary medicine by Dr. Michelle Yeung, the acting Assistant Director of AFCD, and our Dean, Professor Michael Reichel.
All in the name of love (and curiosity)…

students delve headlong into world of Animal Care

They came, they saw and they “conquered” everything they needed to know about animals - great and small… and slithery.

Picked from an applicant pool of over 300 students representing over 100 local schools, this cohort of 72 secondary school students, recruited in 2016, spent the past months venturing into the world of animals, figuring out their relationship with humans and society as a whole and looking into improvements in animal care practices.

Having now completed the required 180-hour course, these students will soon see the fruits of their labour when they receive their Hong Kong Diploma of Secondary Education (HKDSE) Applied Learning (ApL) in Animal Care.

“The Animal Care course has been a very fruitful journey for both teachers and students,” says Dr Queeny Yuen, course leader and Continuing Education Coordinator from City University’s Department of Infectious Diseases and Public Health. “As teachers, we witnessed the students mature and develop their knowledge and understanding about animal needs.

“They also became more confident when presenting their work and thoughts on animals.” she adds. “The students, on the other hand, made new friends with students from other schools. At the end of the course, they all walked away with a much clearer understanding of what it takes to work with animals and what type of work they would like to do with animals in the future.”

The idea of the Animal Care course was first mooted by the Hong Kong Education Bureau as a collaboration with City University of Hong Kong’s School of Continuing and Professional Education (SCOPE) and supported by the College of Veterinary Medicine and Life Sciences. They actively participated in the design of the curriculum which is aimed at inspiring senior secondary school students to care for animals, so that after leaving school, they will consider pursuing a career in veterinary sciences to ensure the health and wellbeing of animals.

The course structure comprises 5 modules, with a total of 180 teaching hours.

- Modules 1 – 3 are comparatively more theory-based, covering topics such as basic animal welfare principles and ethics, animal care overview, animal behaviour as well as animal anatomy and physiology.
- Modules 4 - 5 provide practical contexts for students to apply the knowledge and understanding developed in the previous modules and these involve field studies where students learn to sharpen their animal-handling skills.
- Assessments in animal care are varied to allow every student the opportunity to shine, depending on their preferred style of learning. Assessment tasks include a written test, reflective writing, group project presentations and practical skills examinations.

If you love animals or are fascinated by them…and want to make their world a better and safer place, take up Animal Care course. For more information, please visit:

2) CityU School of Continuing and Professional Education website: www.cityu.edu.hk/ce
DID YOU KNOW

Over 3.5 million tonnes of shrimp are farmed annually with Asia-Pacific producing over 80% of global output.

Connect With Us on Social Media!

到社媒追蹤我們！

The College of Veterinary Medicine and Life Sciences recently launched a Facebook Page and Twitter account to bring you more information about all veterinary and life science related content from the College.

We would like to invite you to "LIKE"/"FOLLOW" us on Facebook and "FOLLOW" us on Twitter for the latest news, information about upcoming events and much more.

We hope you comment on our posts and feel free to ask any questions or share our content with friends and family.

JOIN US ON FACEBOOK:
https://www.facebook.com/HKVetSchool/

JOIN US ON TWITTER:
https://twitter.com/HKVetSchool