

## Outstanding Research — Scholarly Performance Awardee Urges “Learning by Doing”

It is not uncommon for a lecture conducted by Dr Anthony Lui, HKCC Lecturer, to be full of animated discussion. Teaching Human Biology and Microbiology subjects, Dr Lui sees his classroom as a platform for sharing and discussion, a chance for students and the teacher to come together and dissect difficult questions, practise reasoning and find solutions. Dr Lui believes that science education is not just about imparting knowledge, rather, it should ignite a thirst for answers and empower students with lifelong learning skills. Perhaps it is this dedicated search for answers throughout his own cancer research that has made Dr Lui the recipient of the CPCE Dean's Award for Outstanding Research-Scholarly Performance in 2015/16.

“I was surprised to win this award,” said Dr Lui. “But I am certainly excited about my research findings and how they might contribute to the future of cancer research.” Initially inspired by a professor from his MPhil programme, Dr Lui spent the last decade doing cancer research in the United States. His work has contributed to some important cancer research milestones, including

the discovery of a human gene linked to cancer formation, invention of a system that screens cancer medicine dramatically faster than traditional methods, and the development of a chemotherapy drug that improves radiotherapy effectiveness. “With the right interventions, some cancers are already considered treatable. I’m enthusiastic about the future possibilities in our fight against this deadly disease,” he said.

While he acknowledges that hard work and commitment were essential, Dr Lui credits much of his research accomplishments to the teachers he encountered along the way. “I was lucky to have worked with some nurturing professors. Observing them working in the laboratories was the most hands-on way for me to learn,” Dr Lui said. The professors’ support also made a difference. “One time a professor stayed until midnight to help me perfect a PowerPoint before my presentation. She really cared about my learning, and it was inspiring,” he recalled.

Now that he has students of his own, Dr Lui strives to provide the same type of



Dr Anthony Lui, HKCC Lecturer  
HKCC講師呂琪博士

practical learning experience. “You learn much better by doing your own research and arriving at your own conclusions, than you would by memorising information,” he said. That’s why Dr Lui teaches by demonstrating laboratory procedures and showing students real consequences. Students will then be encouraged to experiment on their own. “Knowledge and facts may change as time evolves. Therefore, the most important thing I should teach students is the lifelong learning skills – which entail the ability to obtain information, go through trial and error, think outside the box and derive answers.”

### 研究及學術傑出表現獎得主 鼓勵從實踐中學習

身處HKCC講師呂琪博士的課堂，會不時聽到種種有趣的對話。呂博士教授人類生物學及微生物學，他把課堂視為討論的平台，讓師生共同剖析難題、學習思辨以至尋求答案。呂博士相信科學教育不應純粹灌輸知識，更應燃起同學對尋求答案的熱誠，並傳授終身學習的技巧。呂博士抱著鍥而不捨的精神，在癌症研究中不斷追尋答案，造就了他成為2015/16年度「CPCE院長特設研究及學術傑出表現獎」得主。

呂博士說：「能夠奪得這項殊榮，我感到很意外。然而，對於自己的研究成果，以及這些成果對未來癌症研究所發揮的啟迪作用，確實使我鼓舞。」呂博士修讀哲學碩士課程期間，受到一位教授的啟發，過去十年留在美國從事癌症研究。呂博士曾為癌症研究奠下了一些重要的基石，他的研究成果包括：發現一種誘發癌症的人類基因、研發出一項較傳統方法快捷的癌症藥物測試系統，以及一種提升放射治療功效的化療藥物。他說：

「有了適當的治療，某些癌症已被視為可醫治的疾病。對於這個可致命的疾病，我熱切期待我們將來研發更多可行的對抗方法。」投入和努力對研究工作固然重要，但呂博士把今天的研究成績，歸功於他曾遇上的良師。呂博士說：「我很幸運能與一些熱心培育後輩的教授一同工作，觀察他們在實驗室工作，是最實際有效的學習體驗。」呂博士亦難忘教授給予他的支持，他回憶說：「有次我要發表演說，一位教授伴我到深夜，指導我把彙報檔案修改至盡善盡美。她的悉心

教導，令我啟發良多。」

今天呂博士已為人師，致力幫助同學從實踐中學習。他說：「與單純背誦資料比較，若同學親身進行研究，再立下結論，可享有更佳的學習成效。」因此，呂博士授課時，會示範實驗過程，向同學展示真實的結果，再鼓勵同學親自實驗。「知識和事實會隨時間而演變，因此我重視教授同學終身學習的技巧，包括獲取資訊、反覆試驗、創新思維，以及達至結論的能力。」



Dr Lui regarded the laboratory session as an important opportunity for students to develop empirical skills. 呂博士認為實驗課堂為同學提供重要的機會，鍛鍊求證技巧。