

Department of Chemistry  
Faculty of Science  
The University of Hong Kong

Chemistry Major (96 credits)  
Intensive Chemistry Major (144 credits)



# HKU Chemistry Department (established in 1939)

*Many HKU chemistry graduates are leaders in the society!*



**Professor POON, Chung-Kwong**  
President Emeritus of HK PolyU(1991-2008)



**Professor CHENG, Kin Fai**  
Emeritus College Principal of HKU SPACE Community College;  
Former Dean of Science, HKU



**Dr the Hon FAN HSU, Rita Lai-Tai**  
President of the Legislative Council,  
HKSAR (1997 – 2008)



**Ms LEE, Oi Lin**  
Former Deputy Executive  
Director of VTC



**Dr POON, Patrick Sun-Cheong**  
Chairman of Harvest SCP  
Group Company Limited



**Dr LEUNG, Wing Tai**  
President of Lumina College;  
Ministry Advisor of Breakthrough



**Mr CHAN, Wing Luk**  
Financial Commentator



**Dr CHUNG, Margaret Wai Ling**  
Director and Biomedicine  
Consultant, Amazing Grace  
Holistic Health Care Center



**Professor CHE, Chi-Ming**  
Zhou Guangzhao Professor in Natural  
Sciences; Member of the Chinese Academy  
of Sciences; Foreign Associate of the US  
National Academy of Sciences



**Professor YAM, Vivian Wing-Wah**  
Philip Wong Wilson Wong Professor in  
Chemistry and Energy; Member of the  
Chinese Academy of Sciences; Foreign  
Associate of the US National Academy of  
Sciences



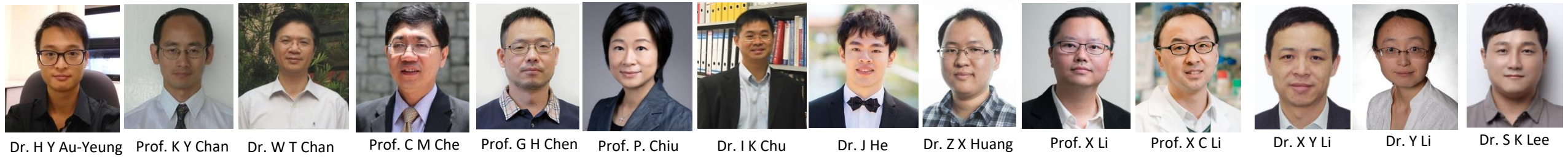
**Dr CHAN WONG, Anissa Lai Kuen**  
Principal of St Paul's Co-educational  
College (2004 – 2017)



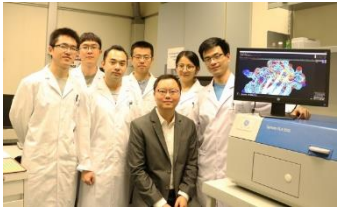
<https://www.scifac.hku.hk/alumni/science-family>



# A Strong Team of Chemistry Teachers



港大首研新型抑制劑  
降低白血病致癌基因  
東網2018年11月01日



表揚科研獎：陳冠華助電腦加速  
研「幻境」尋新物料  
文匯報 2016年4月19日



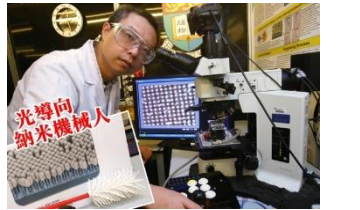
港大學者成功鑽研新抗生素合成法  
10年內有望製新藥  
香港01 2017年12月11日



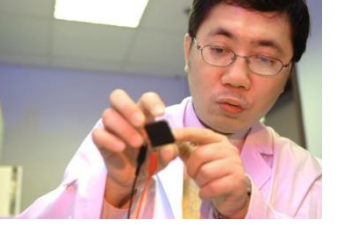
港大化學教授 喜獲歐洲殊榮  
成報 2015年10月21日



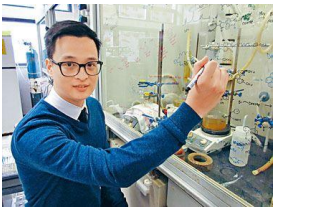
港大研超微細光導向  
納米機械人助治癌  
東網2016年10月24日



支志明教授獲獎無數，近日又獲得英  
國皇家化學學會頒發 Centenary Prize  
文匯報 2013年12月30日



港大學者研兒茶酚胺 助解  
腦疾成因  
星島日報 2016年4月19日



港大研發光探針  
助開發標靶藥  
星島日報 2015年3月18日





# An Research-active Department



## Research funds:

**Health@InnoHK Programme** - The Laboratory for Synthetic Chemistry and Chemical Biology (~HK\$500 million)  
**Project Leader: Prof. Che-Ming Che**

**AIR@InnoHK Programme** - The Centre of Machine Learning for Energy Materials and Devices (~HK\$500 million)  
**Project Leader: Prof. Guanhua Chen**

**Areas of Excellence (AoE) Programme** - Institute of Molecular Functional Materials (HK\$92M)  
**Project Leader: Prof. V W W Yam**

**Areas of Excellence (AoE) Programme** - Chemical Biology Approach to Molecular Medicine (HK\$83.8M)  
**Project Leader: Prof. D Yang**



<https://chemistry.hku.hk/research/areas/>

..... and many others

# Committed to Providing Quality Teaching and Nurturing Our New Generation

## Undergraduate Studies (BSc Chemistry Major)

Regular Chemistry Major Curriculum  
(96 credits)

Intensive Chemistry Major Curriculum  
(144 credits)



The Royal Society of Chemistry (RSC) in the UK is one of the world's leading chemistry communities and professional associations.

The RSC accreditation is a strong recognition of:

- Very high standards
- Global practice
- Effective development of students



# Chemistry Major (96 credits) / Intensive Chemistry Major (144 credits)

## Introductory Level

- Two Science Foundation Courses (12 credits)
- Disciplinary Core Courses (36 credits for Regular Major; 42 credits for Intensive Major) including [General Chemistry I & II](#), [Analytical Chemistry I](#), [Inorganic Chemistry I](#), [Organic Chemistry I](#), [Introductory Physical Chemistry](#)

## Advanced Level

- Disciplinary Core Courses (30 credits for Regular Major; 66 credits for Intensive Major) including [Analytical Chemistry II - Chemical Instrumentation](#), [Inorganic Chemistry II](#), [Organic Chemistry II](#), [Organic Chemistry Laboratory](#), [Physical Chemistry – Introduction to Quantum Chemistry](#)
- Disciplinary Electives (12 credits for Regular/Intensive Major) including [Medicinal Chemistry](#), [Advanced Materials](#), [Supramolecular Chemistry](#), [Frontiers in Modern Chemical Science](#), [Organometallic Chemistry](#), [Integrated Organic Synthesis](#), [Chemical Biology](#), [Computational Chemistry](#), [Electrochemical Science and Technology](#), etc.

## Capstone Requirement

**(Regular Major)** Select at least 6 credits from the following courses:

Directed studies in chemistry  
Chemistry literacy and research  
Capstone experience for chemistry undergraduates: HKUtopia  
Chemistry internship  
Chemistry project (12 credits)

**(Intensive Major)** Select 12 credits from the following courses:

Directed studies in chemistry  
Chemistry internship  
Chemistry project (12 credits)



[https://chemistry.hku.hk/current\\_students/undergraduate\\_studies/](https://chemistry.hku.hk/current_students/undergraduate_studies/)

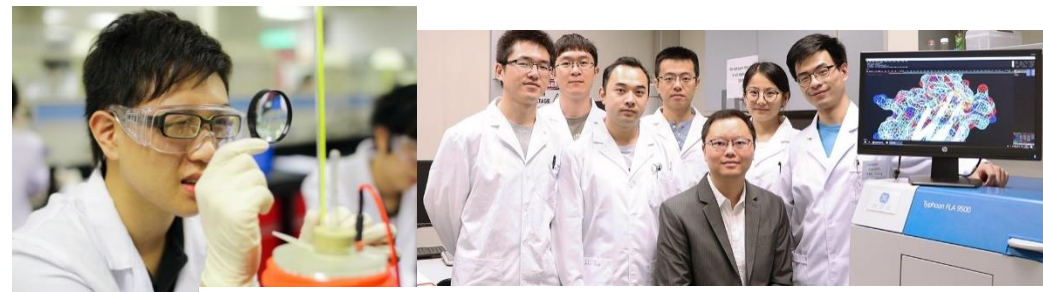


# Diverse Learning Experiences

## Undergraduate Research Experiences



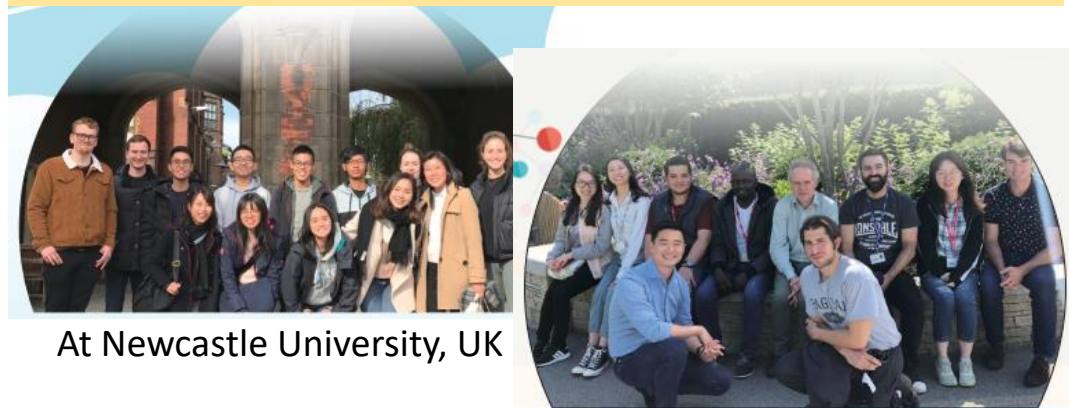
## Internship



## Exchange Study



## More Internationalization Opportunities (for Chemistry Students)



At Newcastle University, UK

At Imperial College London, UK



[https://chemistry.hku.hk/current\\_students/opportunities/](https://chemistry.hku.hk/current_students/opportunities/)





*Studying Chemistry is an excellent way to develop one's intellect*

# Career Prospects for Chemistry Graduates in Different Sectors

## Education Institutions Area

Universities (Assistant Project Officer); Secondary School / College (Graduate Master, Laboratory Technician); HKU Space (Executive Assistant)

## Industrial Sector

Retail field (Management Trainee); Cosmetic field (Marketing Assistant); Pharmaceutical (Medical Representative; Quality Control Chemist); Testing / Commercial Laboratories (Assistant Chemist; Associate Scientist; Chemist Trainee)

## Civil Service Sector

Immigration Department (Immigration Officer); Department of Health (Administrative Assistant); Civil Service Bureau (Executive officer, Official Language officer); Hong Kong Correctional Services (Officer); The Fire Services Department (Ambulance Officer)

## Business Sector

Bank institutions (Management Trainee; Personal Financial Manager Trainee); Accounting Audit (Audit Accountant; Audit Associate); Insurance (Financial Planner Trainee)

## Postgraduate Research Studies

Master of Philosophy (MPhil), Doctor of Philosophy (PhD)



政府化驗所  
Government Laboratory



## Public Services





# Strong Support to Students



**Strong teacher-  
student  
interaction**

(Chemistry teachers  
as Course Selection  
Advisors, Academic  
Advisors, etc.)

**Strong rapport  
between  
students**

(Chemistry Society, SS,  
HKUSU, Student Peer  
Advisors)



## Some Former/Current Chemistry Student Peer Advisors



Jerry



Melanie



Bonnie



Josen



Rebecca



Jay



Jasmine



Stephanie



Brian

**ENQUIRY**

<https://chemistry.hku.hk/>

[chemmail@hku.hk](mailto:chemmail@hku.hk)