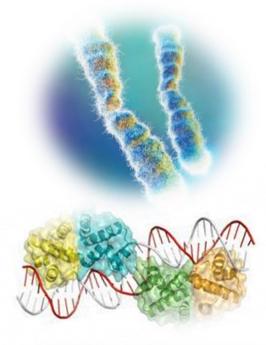


Biochemistry Program

OUR MISSIONS

- 1. To provide concepts and mechanisms on the molecular basis of life processes and the significance in human activities and health.
- 2. To provide training on the latest *biochemical technology.*
- 3. To cultivate the ability of *critical thinking, a* proactive and responsible attitude and efficient communication skills for high competitiveness in further study and career development.







Biochemistry Program Requirements

- Fundamentals of Biochemistry
- · Cell Biology
- Basic Laboratory Techniques in Life Sciences
- Scientific Conduct and Ethics
- Frontiers in Biochemistry
- Molecular Biology
- Recombinant DNA Techniques
- · Molecular Biology & Recombinant DNA Lab
- General Genetics / Lab

Year 2:
Fundamental Courses
(20 units)

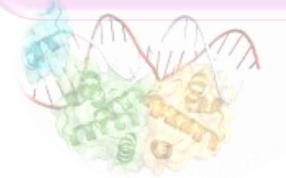
- Proteins and Enzymes
- > Bioenergetics and Metabolism
- Self-Study Modules in Biochemistry
- Methods in Biochemistry/Lab
- Senior Literature Research / Senior Experimental Project I, II, III

Year 3 - 4:
Fundamental &
Specialized Topics
(13 units)
+
Elective courses
(18 units)

Major Elective Courses for Different Career Paths

BCH program

- · Clinical Biochemistry
- Aspects of Neuroscience
- Molecular Endocrinology
- Medical Biochemistry Lab.
- Basic and Applied Immunology / Lab.
- Biochemistry for Sport and Exercise
- Biochemistry Forensic Sciences
- Management & Accreditation of Biochemical lab



Clinical / Biomedical Sciences

- Nutrition and Human Development
- Introduction to Medical Nutritional Therapy
- General Microbiology
- Animal Physiology
- Human Genetics
- Statistical Techniques in Life Sciences

Research / Biomedical technology

- Protein Folding, Proteomics
- Animal Biotechnology
- Biochemical Toxicology/Lab
- Statistical Techniques in Life Sciences
- · DREAM, iGEM

Biochemistry for environment

- Animal Biotechnology
- Environmental & Biochemical Toxicology/Lab
- Methods in Toxicological Research/Lab
- · Environmental Health
- Statistical Techniques in Life Sciences

Active Learning



Lectures and tutorials

Laboratories / Videos/ Presentation



Collaborative learning

Academic Advising and Mentoring

- Academic counseling and mentoring for Biochemistry students
- College-based, same advisor assigned to the same student for the whole university life
- Take care of the academic matters and general affairs

Level I advisors: provide academic advice and general support

Profs. Shannon Au, Edwin Chan, Michael Chan, TF Chan,

WP Fong, SK Kong, KF Lau, Jacky Ngo, PC Shaw

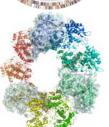
Drs. FH Lo, Patrick Ngai

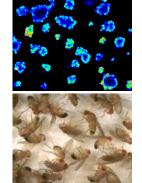
Level II advisors: provide academic advice and further support

Profs. Shannon Au, TF Chan and KF Lau

Major Research Areas at Biochemistry









- Protein Science
- Cell Biology/Cancer/Immunology
- Neuroscience
- Biochemical toxicology
- Nutritional Science and Natural Products



Other Learning Experiences at Biochemistry

- SMART Program (Young Scientist Mentorship and Research Training)
- DREAM Program (Dedicated Research Exchange and Mentorship)
- Berkeley Biosciences Study Abroad (BBSA) Programme
- Summer Internship
- Exchange activities through university and colleges



Joining SLS for DREAM and iGEM

DREAM: A Research Training Program for Undergraduates

Participating Institutions from 2006-2017:

University of Sussex

Imperial College London, UK

The Ohio State University, US

University of Western Ontario, Canada

University of Cincinnati, US

Harvard University, US

The Ohio State University, US

University of Melbourne

University of Toronto, Canada

University of California, US

Brigham and Women's Hospital, US

Georgetown University, US

Mayo Clinic College of Medicine, US

National Institute of Health, US

Institute of Biological Chemistry, Biodiversity Research Center, Academia Sinica, Taiwan

iGEM: First-ever CUHK team formed by students including those for Biochemistry

Our 4th Gold Medals since 2010





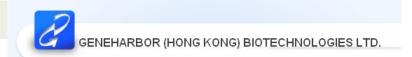


Summer Internship

Host Institutes	No. of students
2017	
Nano and Advanced Materials	1
Kadoorie Farm and Botanic Garden	1
New β Innovation Ltd	2
2016	
DiagCor Bioscience Incorporation Limited	3
GeneHarbor (HK) Biotechnologies Limited	3
Kadoorie Farm and Botanic Garden	1
New β Innovation Ltd	2
2015	
Kadoorie Farm and Botanic Garden	1
New β Innovation Ltd	2



















Outgoing Exchange Opportunities

Country	Host University	Exchange Period	
2016-17			
Denmark	Technical University of Denmark (Engineering & Science Programme)	2nd Term	
Korea	Yonsei University	2nd Term	
Korea	Korea University	2nd Term	
Singapore	Nanyang Technological University	Summer	
Sweden	Karlstad University (Science Programme)	2nd Term	
Switzerland	University of Lausanne	2nd Term	
The Netherlands	Utrecht University	2nd Term	
United Kingdom	University of Glasgow	1st Term	
USA	University of California, Davis	Year	

Outgoing Exchange Opportunities

Country	Host University	Exchange Period	
2015-16			
Canada	The University of British Columbia	1 Year	
Czech Republic	University of Economics, Prague	2nd Term	
Denmark	Copenhagen Business School	Summer	
Finland	University of Helsinki	2nd Term	
Japan	Doshisha University	1 Year	
Sweden	Stockholm University	Summer	
The Netherlands	Maastricht University	2nd Term	
The Netherlands	Leiden University	2nd Term	

Extracurricular activities organized by the Biochemistry Society (The Student Body of Biochemistry Majors)





Extracurricular activities organized by the Biochemistry Society (The Student Body of Biochemistry Majors)



Career Talks

Biochemistry Alumni and leaders in various areas are invited to share their work experience









高怡醫學化驗所有限公司 Bright Growth Medical Laboratory Limited





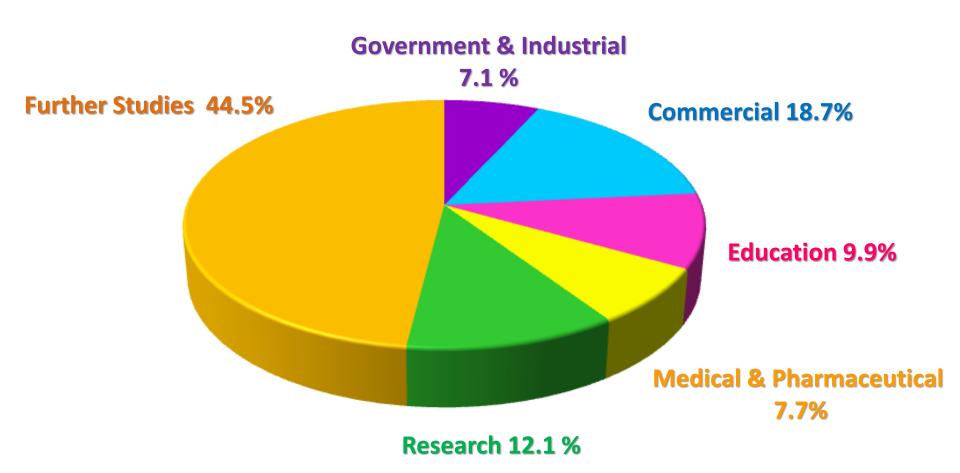








Careers of Biochemistry Graduates (2012-2016)



For more information, please click into our website

http://www.sls.cuhk.edu.hk/index.php/bche





Biochemistry Programme
The Chinese University of Hong Kong







SEARCH







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30	31					

20-10-2016

No event messages to display for today

What's new



Biochemistry College Gatherings with Teachers and Students



Career Talk 2016











