



Biochemistry Programme

OUR MISSIONS

1. To provide quality education on the **basic concepts and mechanism of biochemical processes**, with the opportunity to select an area of specialization.
2. To provide training on the latest **biochemical technology** and **opportunity of independent research**.
3. To cultivate the ability of **critical thinking, a proactive and responsible attitude and efficient communication skills** for high competitiveness in further study and in the job market.



B.Sc. in Biochemistry Core Courses

- Frontiers in Biochemistry
- Fundamentals of Biochemistry
- Cell Biology
- Basic Laboratory Techniques in Life Sciences
- Research and Communication skills in Life Sciences

**Year One:
Fundamental Courses**

- Proteins and Enzymes
- Bioenergetics and Metabolism/Lab
- Self-Study Modules in Biochemistry
- Methods in Biochemistry/Lab
- Molecular Biology/Lab
- Recombinant DNA Techniques

**Year Two:
Fundamental and
Specialized Topics**

- ❖ Selected Topics in Biochemistry
- ❖ Guided Study in Biochemistry or
- ❖ Supervised Research in Biochemistry

**Year Three:
Research/Guided Study
and Elective Courses**

Major Elective Courses for Different Career Paths

BCH program

- Clinical Biochemistry
- Aspects of Neurosciences / Lab.
- Molecular Endocrinology
- Medical Biochemistry Lab.
- Basic and Applied Immunology / Lab.
- Guided Study in Biochemistry
- Supervised Research in Biochemistry

Clinical / Biomedical Sciences

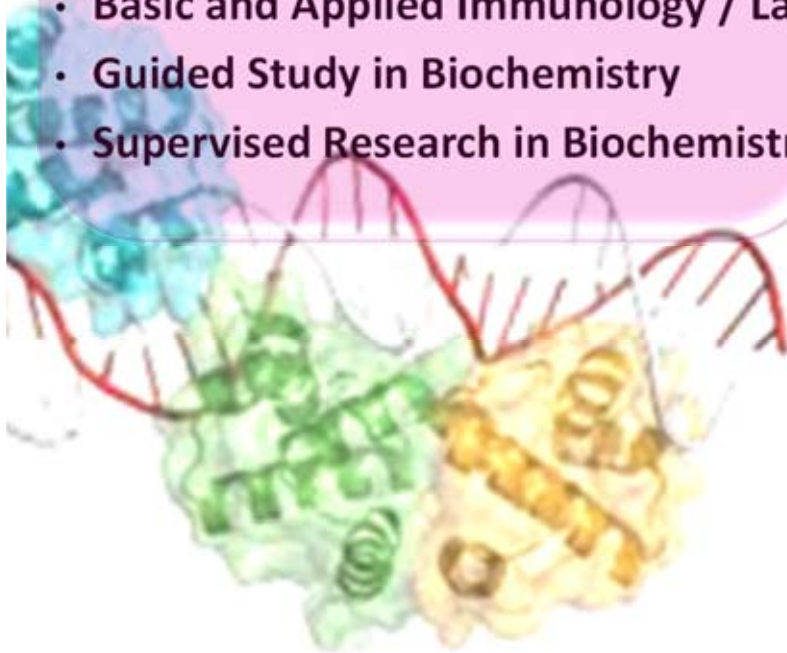
- Nutrition and Human Development
- Introduction to Medical Nutritional Therapy
- Human genetics
- Statistical Techniques in Life Sciences

Research / Biomedical technology

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

Biochemistry for environment

- Animal Biotechnology
- Biochemical Toxicology/Lab
- Methods in Toxicology Research/Lab
- Environmental Health/Lab
- 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

Prof. Shannon AU (SC)

Prof. KF Lau (UC)

Prof. LK Leung (NA)

Prof. WP Fong (CC)

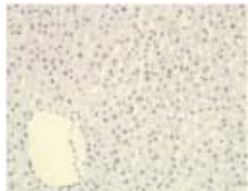
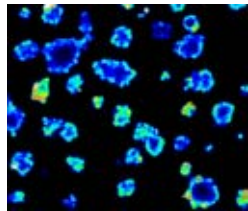
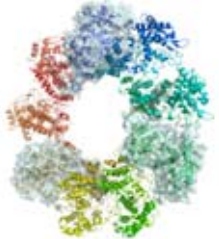
Prof. TF Chan (New Colleges)

Level II advisor: for students who have academic problems and need further support

Prof. WP Fong

- Academic advising for year 1 non-Biochemistry students: Prof. WP Fong

Major Research Areas at Biochemistry



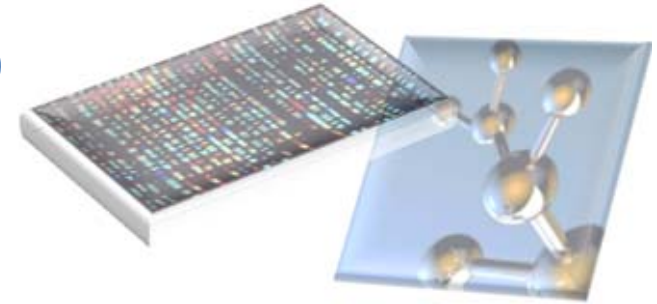
- **Genomics and bioinformatics**
- **Protein Science**
- **Cell Biology/Cancer/Immunology**
- **Neuroscience**
- **Biochemical toxicology**
- **Nutritional Science and Natural Products**

Other Learning Experiences

- **Ohio University Exchange Program and other University/College based exchange programs**
- **SMART Program (Young Scientist Mentorship and Research Training)**
- **DREAM Program (Dedicated Research Exchange and Mentorship)**
- **Summer Internship**
- **Exchange activities through university and colleges**



BCH Summer Internship



Learn as you have fun
Get work experience relevant to your field
Work on innovative projects

Since 2010, 18 BCH students have joined our summer internship



New A Innovation



CUGEN LIMITED



GENEHARBOR (HONG KONG) TECHNOLOGIES LTD.

Law offices of Albert Chan,
PLLC



Outgoing exchange opportunities

Student	Year	Country	Host University	Study Period
2009-2010				
CHEUNG Chee Yin	1	USA	University of Hawaii at Manoa	1 Year
2010-2011				
CHENG Darren Matthew	3	USA	Ohio State University	1 Year
CHU Ho Ching	3	Switzerland	ETH Zurich	2 nd term
WANG Han Bo	3	USA	University of Notre Dame	1 st term
2011-2012				
LAM Muk Yan	3	Australia	Australian National University	1 st Term
LEE Sai Hang	3	China	Zhejiang University	1 year

http://www.cuhk.edu.hk/oal/navigation_student.exchange/where/where.htm

Visit and Exchange with eminent scientists

Nobel Laureate:

Dr. Richard Roberts
Dr. Kurt Wüthrich
Dr. Ada Yonath
Dr. Venki Ramakrishnan

Fellow of Royal Society (UK):

Prof. Tom Blundell
Prof. Alan Fersht

Academician of Chinese Academy of Sciences

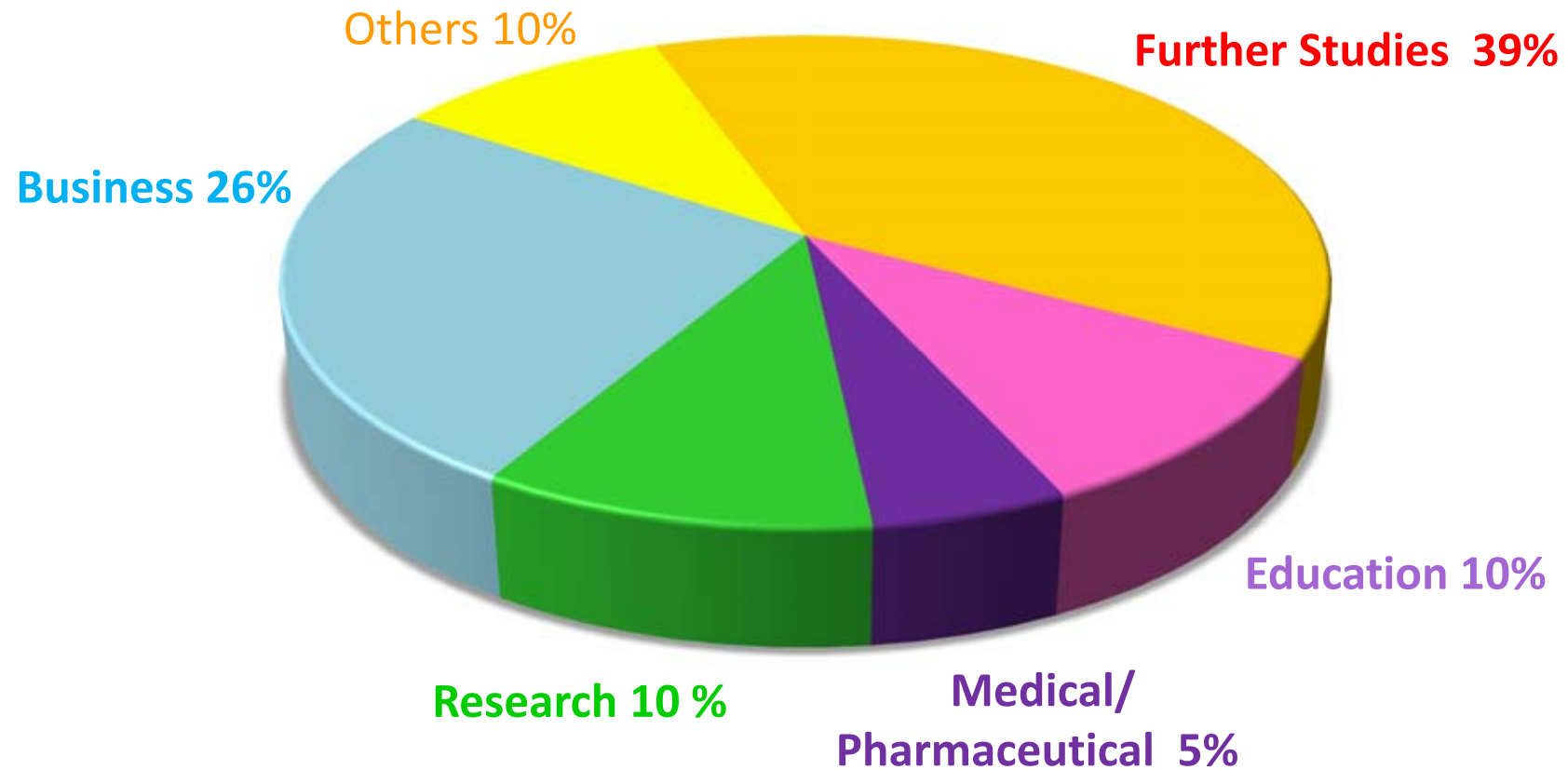
Prof. Zihé Rao
Prof. Zhizhen Wang



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



Careers of Biochemistry Graduates (2011)



Please click into our website
<http://www.bch.cuhk.edu.hk> for more information.



Undergraduates | Postgraduates | Research | Resources

KEYWORD SEARCH



<ul style="list-style-type: none"> ■ Degree Programmes ■ Admission BCH Handbook ■ Course programmes 	B.Sc.	<ul style="list-style-type: none"> Admission BCH Handbook Course programmes Academic Activities Awards Related Programmes Curriculum
	M.Phil. & Ph.D.	
	M.Sc.	

Thank you
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