

3-yr curriculum: JA4757

4-yr curriculum: JS4601

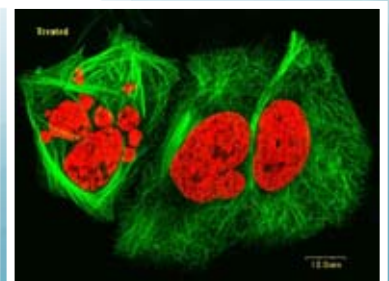
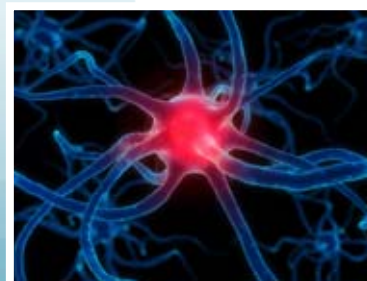
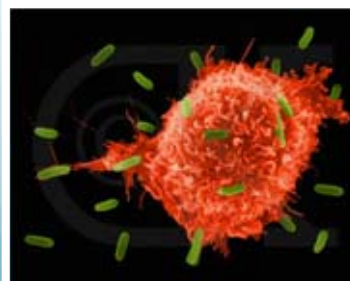
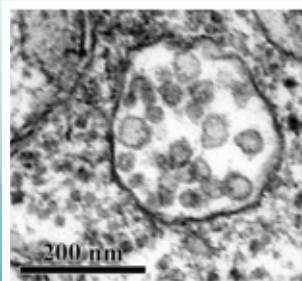
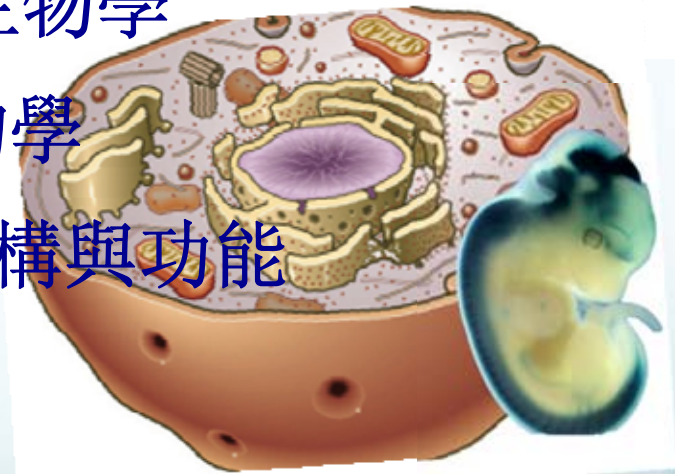
Cell and Molecular Biology Programme (CMBI)

細胞及分子生物學課程

What is Cell & Molecular Biology?

A study of fundamental aspects of life at cell and molecular levels

- **Stem cell biology** 幹細胞生物學
- **Neuronal cell biology** 神經細胞生物學
- **Developmental biology** 發育生物學
- **Cell structure & function** 細胞結構與功能
- **Bioinformatics** 生物信息學



Why Cell and Molecular Biology?



HARVARD UNIVERSITY | DEPARTMENT OF
Molecular and Cellular Biology

Duke UNIVERSITY
**PROGRAM IN CELL AND
MOLECULAR BIOLOGY**

UC Berkeley

Department of Molecular & Cell Biology

Cell and Molecular Biology Major Program



UNIVERSITY OF
TORONTO

Cellular & Molecular Biology



**Imperial College
London**
Division of Cell & Molecular Biology

Dept of Cell and Molecular Biology



Cell and Molecular Biology

CMBI

細胞及分子生物學

The Road to Success

3-yr curriculum: JA4757

4-yr curriculum: JS4601

Study Scheme

4-yr curriculum: JS4601

Admit to Faculty-based admission (JS4601)



Study fundamental courses in General Science & Life Sciences (Year 1 & 1st term of Year 2)

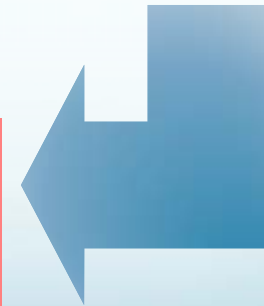


3-yr curriculum: JA4757

Admit to LSCI (JA4757)



Study fundamental courses in Life Sciences (1st term of Year 1)



Declare CMBI as major and follow requirements posed by CMBI

Our 3-yr Curriculum

Fundamental courses in Life Sciences

BCHE2030, BIOL2120, LSCI2000, LSCI2002 in 1st term

Year 1

Years 2 & 3

STOT
courses

LECTURE
courses

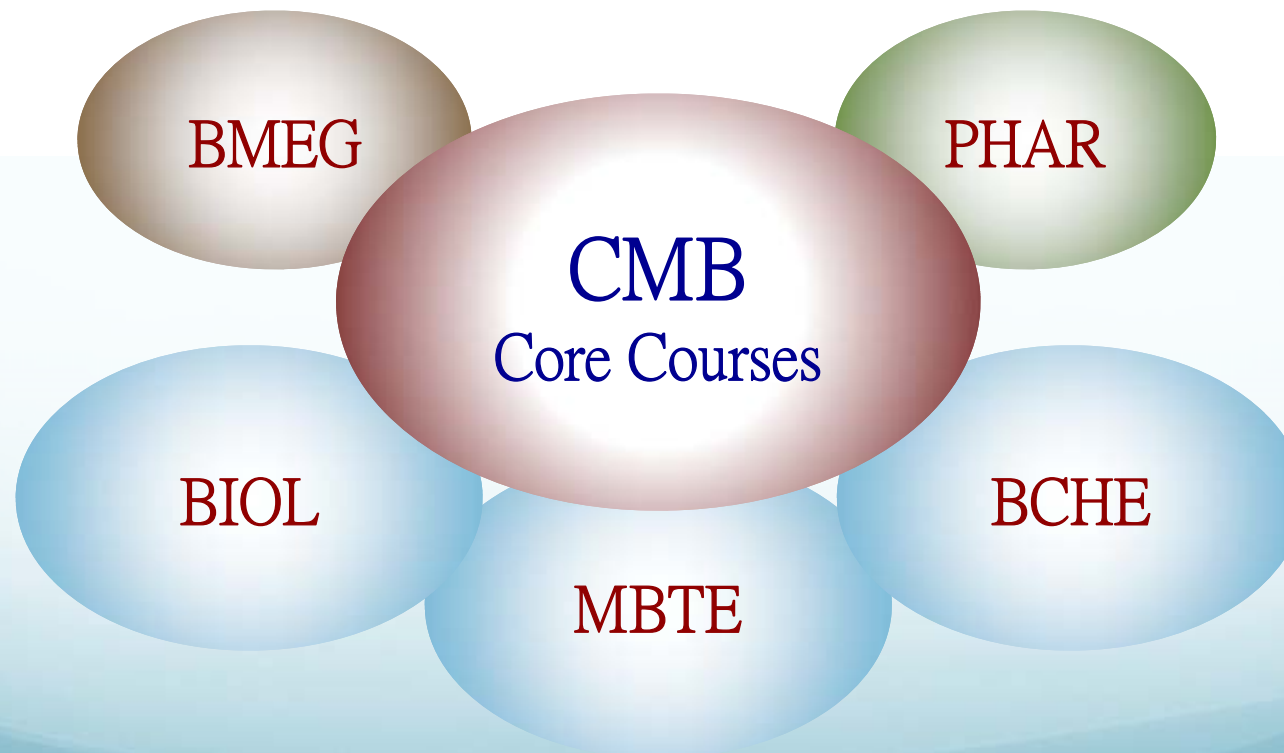
LAB
courses

LECTURE

Faculty of Engineering

THE CHINESE UNIVERSITY OF HONG KONG
BIOMEDICAL ENGINEERING PROGRAMME
香港中文大學
生物醫學工程學本科課程

Faculty of Medicine



Faculty of Science

LECTURES – Solid Foundation and Diverse Backgrounds

- Cell Biology
- Genetics Microbiology
- Development Biology
- Physiology
-

- Molecular Biology
- Neuroscience
- Molecular Endocrinology
- Clinical Biochemistry
-

- Introduction to BME
- Molecular Engineering
- Neuroengineering
-

- Microbial Biotechnology
- Plant Biotechnology
- Animal Biotechnology

- Introduction to Pharmacy
- Pharmaceutical Analysis



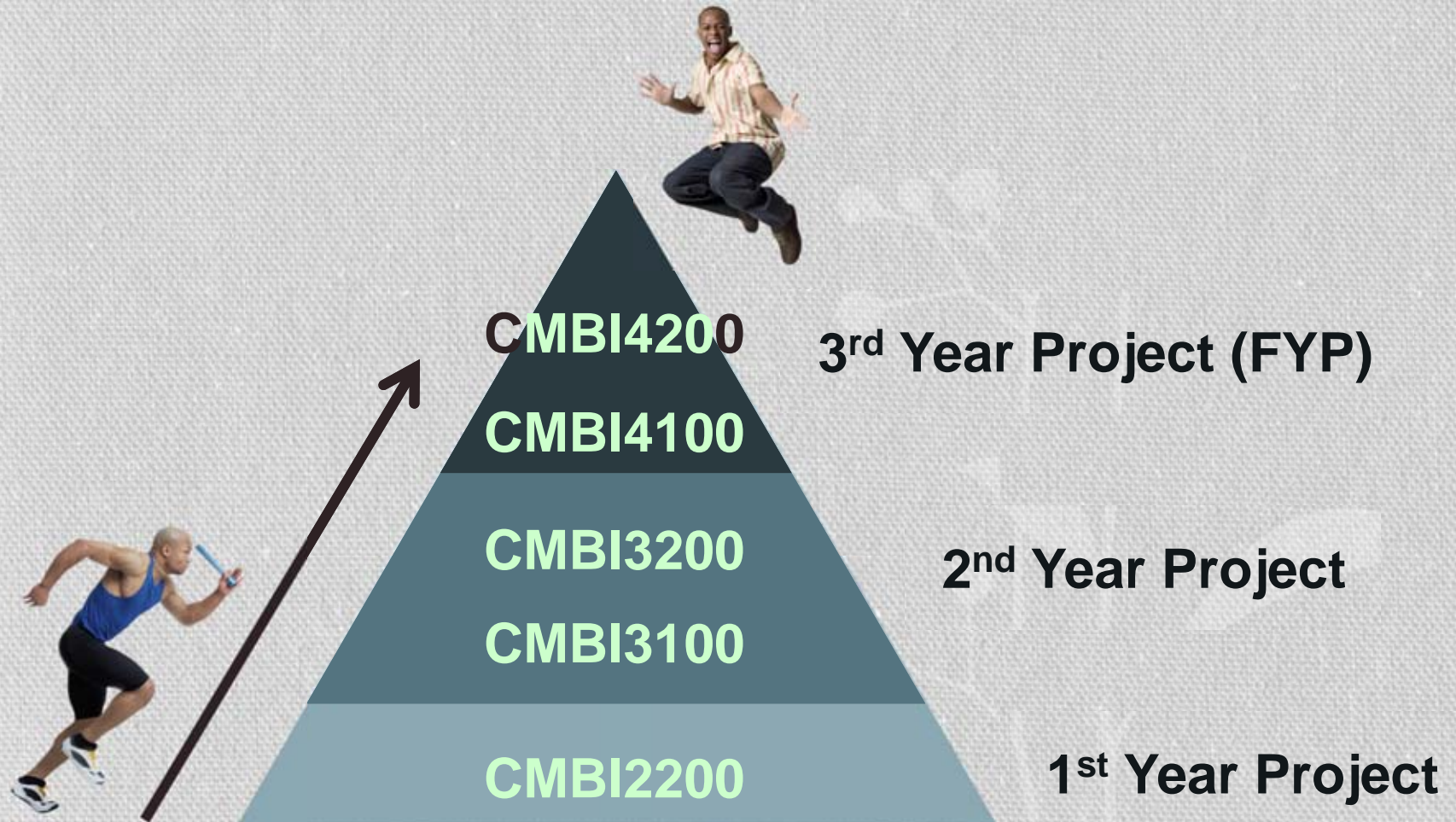
Stem Cell Biology
Cancer Cell Biology
Neuronal Cell Biology
.....

CMB
Core Courses

Genomics
Proteomics
Metabolomics
.....

STOT –

A Core Component of CMBI Curriculum





CMBI2200 Literature survey in CMB & Scientific Communication

細胞及分子生物學科技文獻檢索和科學交流方法

CMBI3100 Method of Critical Thinking

科學思維方法

CMBI3200 Creative Scientific Writing

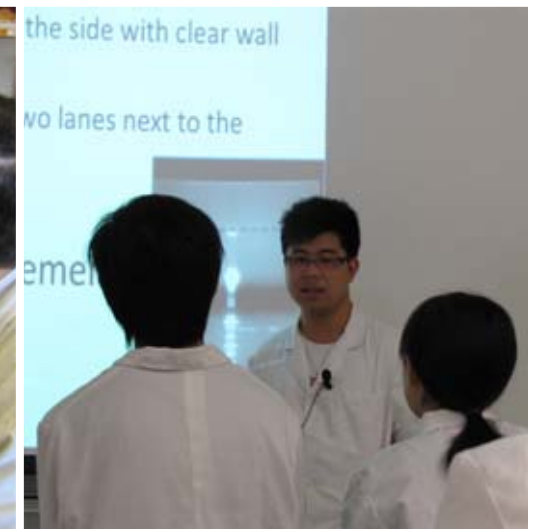
創新科學寫作方法

CMBI4100 Supervised Research in CMB I

細胞及分子生物學專題研究 I

CMBI4200 Supervised Research in CMB II

細胞及分子生物學專題研究 II





Course evaluation on CMBI2200

Do you think you can write a scientific paper?

Before taking the course	2.47
After taking the course	4.35

Scale: 1 (worst) – 5 (best)

On CMBI3100

Dear Wei,

I have read with pleasure two reviews from our CMB students. The quality of the reviews is very good, I would say, it is better than many of the FYP reports that I have marked for years. I would like to congratulate on our success of the course.

KB Wong (Director, MBT Programme)



Course evaluation on course coherence (2011/12)

CMBI2200 – 3100 – 3200 – 4100 – 4200

How has CMBI2200 impacted your success in this course?

4.25

How has CMBI3100 impacted your success in this course?

4.75

How may the CMBI capstone courses you have taken impact your success in your future studies and career?

5.00

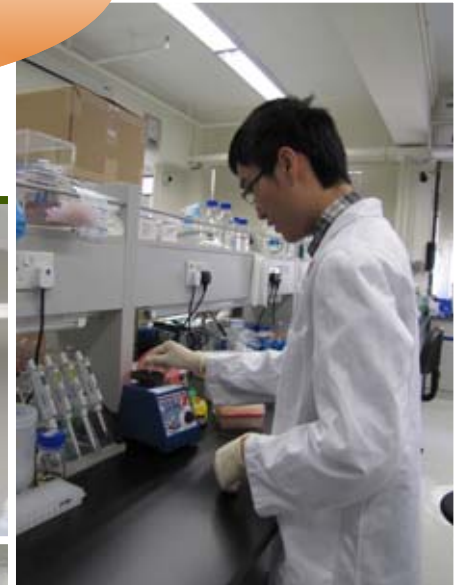
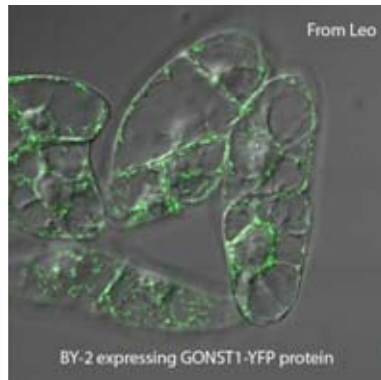
and **M**olecular **B**iology Programme
細胞及分子生物學課程

LABORATORY

– The proudest part of CMBI curriculum

CMBI3010
CMB Lab I

CMBI3020
CMB Lab II





Course evaluation on CMBI3010 & 3020

Do you think you can handle a research project?

Before taking the course	2.73
After taking the course	4.09

Are you satisfied with the course?

-	4.50
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Scale: 1 (worst) – 5 (best)

Students' comments

This is the best lab course I ever had, in terms of the usefulness of the content and the fun I've had learning and practicing the skills.

Our Aim

To train outstanding personnel with

- ① **Knowledge in wide aspects**
 - ② **Marvelous experimental skills**
 - ③ **Excellent logic, writing and presentation skills**
- 

- ***Research career in basic life sciences and biomedical sciences***
- ***R&D in biotech Industry***
- ***Teaching career in secondary and tertiary schools***
- ***Career beyond CMB***

**All-round
competence**

General Enquiry

Tel: (852) 3943 1361

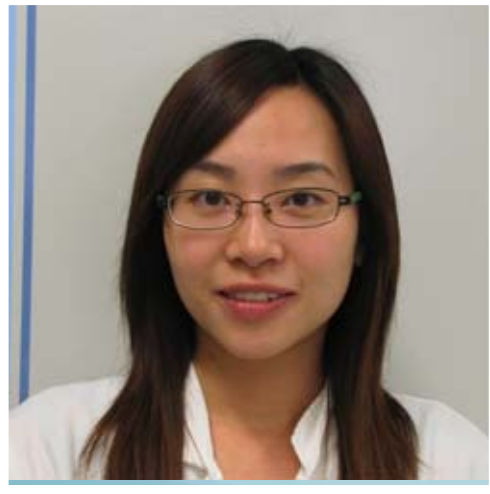
Fax: (852) 2603 6510

Email: cmb@cuhk.edu.hk

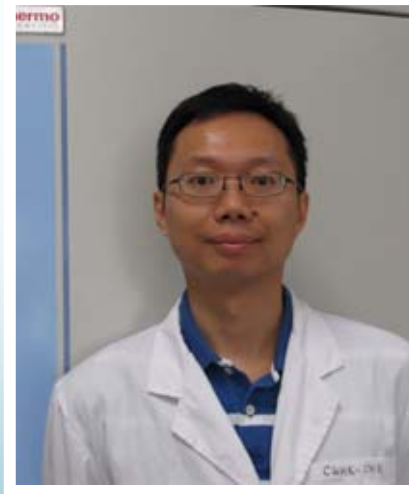
Office: Room 132, Science Centre North Block

Lab: Room 127, Science Centre North Block

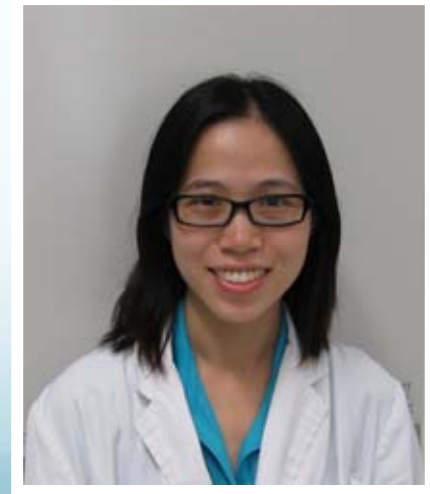
Website: <http://www.cuhk.edu.hk/cmb/>



Shan



Andy



Shirley

3-yr vs 4-yr Curriculum

Course	3-yr	4-yr
Major Requirements	63	60
> Lectures		
Faculty package	0	9
Major compulsory	27	27
Major elective	15	3
> Labs	9	9
> STOTs	12	12
Other Requirements		
> Electives	16	24
> Language/GE/IT/PE	20	39
Total	99	123