# Research Area

Back pain, foot, and ankle disorders/ Diabetic foot care

Clinical virology / Molecular epidemiology

Epigenetics of cancer and aging

Immunogenetics of autoimmune disease

Lymphatic filariasis / Tropical diseases

Mendelian disorders/ Congenital anomalies/ Mutation analyses

Molecular and biology of medical viruses

Molecular mechanisms of diseases with genetic susceptibility

Nanomedicine/ Nanotechnology / Drug delivery

Neurodegeneration / Glial toxicity / Brain iron

Rabies and other encephalitides
Snake venoms

Tumor angiogenesis/ Diabetic endothelial dysfunction

Virus/host factors and outcome of viral infectious diseases

## Scholarships for International Students

- The Graduate Scholarship for Neighboring Countries
  *(**Brunei, Cambodia, Indonesia, Laos, Malaysia, Myanmar, Philippines, Singapore, and Vietnam**)*
- Scholarship for Full-Time and Part-Time International Graduate Students
- Research Assistant / Teaching Assistant

## Scholarships for Thai Students

- Grant support for exchange students
  *(living expense and travel expense)*
- Tuition fee support

***For more information please contact:***


**Graduate Division,**
Faculty of Medicine,
Chulalongkorn University,
Rama 4 Rd., Pathumwan,
Bangkok, 10330, THAILAND.
Phone: 66-2-256-4475
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FACULTY OF MEDICINE
CHULALONGKORN UNIVERSITY

FACULTY OF HEALTH AND LIFE SCIENCES
UNIVERSITY of LIVERPOOL

# Joint Ph.D. Program in Biomedical Sciences and Biotechnology

Website:
http://grad.md.chula.ac.th

# Chulalongkorn University

## INTRODUCTION

Doctor of Philosophy in Biomedical Sciences and Biotechnology is an International Joint-Degree program, which is the cooperation between the Faculty of Medicine, Chulalongkorn University and the Faculty of Health and Life Sciences, University of Liverpool.

The curriculum has been developed by the collaboration between both universities. Students can choose to enroll in either Chulalongkorn University or University of Liverpool.

# Joint Ph.D. Program

## *Program's Highlight*

1. Students will be provided with access to the electronic systems of both institutions
2. Every student will be assigned at least two supervisors, at least one supervisor employed by the University of Liverpool and at least one supervisor employed by Chulalongkorn University.
3. Students will spend the minimum of 6 months at each institution.
4. During their period of study, students may undertake the University of Liverpool's Teaching for Researchers Program, and other suitable courses to develop their learning and teaching skills. If this is the case, then the students should spend a period at Liverpool in excess of 6 months.
5. The joint Ph.D. award will be certified by a single certificate carrying the crest of both partner institutions.

## Entry Requirements

1. Graduate from Medicine/ Dentistry/ Veterinary Science Programs or getting the 1st and 2nd Class Honors in Biological Science/ Physical Science.
2. Graduate Master Degree in Biological Science, Physical Science or Equivalence.
3. Other qualifications as indicated in the annual announcement of Graduate School, Chulalongkorn University, or approved by the program committee for admission.
4. For students whose first language is not English, the normal expected level of English language ability corresponds to an IELTS score of 6.5 or equivalent (TOEFL 550.)
5. For candidates with a lower score (IELTS 6.0), pre-sessional English provision can be arranged at Liverpool for an additional fee or at Chulalongkorn University.

# University of Liverpool

## Program Structure

| | |
|---|---|
| Core course | 6 credits |
| Elective course | 6 credits |
| Dissertation | 36 credits |
| Total | 48 credits |

* Students need to register Doctoral dissertation seminar as non-credit course (S/U) every semester.

**Core Courses**

Research Skills in Biomedical Sciences and Biotechnology
Special Research Project in Biomedical Sciences and Biotechnology
Doctoral Dissertation Seminar

**Elective Courses**

Research Methods in Biomedical Sciences and Biotechnology
Biostatistics in Biomedical Sciences and Biotechnology
Bioinformatics in Biomedical Sciences and Biotechnology
Current Topics in Biomedical Sciences and Biotechnology
Protein Biochemistry
Protein Expression and Purification
Molecular Biology and Cellular Biotechnology
Scientific publication and presentation in the age of information technology

**Dissertation**

Dissertation