

FACILITIES IN UMBI

MICROARRAY LABORATORY

2 Microarray Platforms
Affymetrix System
Illumina System

BIOBANK: LARGEST IN ASEA

Main Biobank
2 Satellite Biobanks (as back-up)

C.ELEGANS LABORATORY

We flew C elegans to the ISS via the USA
STS116 Shuttle (2006)
Follow-up studies now using simulated
microgravity conditions

INFECTIOUS DISEASE LAB

METABOLIC AND PROTEOMICS LAB

HPLC System
Q-TOF LC-MS System

ANIMAL CABIN

Near SPF status

CELL CULTURE AND STEM CELL LAB

Cell Culture Facility
Confocal Microscopy System

GENOME SEQUENCING LABORATORY

Ion Proton System
Ion Torrent System

RNA LABORATORY

Bioanalyser

UMBI-ANGKASA MICROGRAVITY LAB

UMBI has been given the honour to host
the first ever simulated microgravity
system in the country

HOW TO APPLY

Application for study at UMBI can be done
online. Online application is available at
Graduate Admission Application System

(<http://guest.ukm.my/>)
Please read the updated
application guide carefully.

For more information, please contact:

Executive (Administration)
UKM Medical Molecular Biology Institute (UMBI)
UKM Medical Centre
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56000 Cheras, Kuala Lumpur

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Website: <http://www.ukm.my/umbi>

UMBI



INSTITUT PERUBATAN MOLEKUL UKM
UKM MEDICAL MOLECULAR BIOLOGY INSTITUTE

POSTGRADUATE PROGRAMMES



INTRODUCTION

The UKM Medical Molecular Biology Institute (UMBI) was established in July 2003 as a center of excellence focusing on research in molecular medicine. UMBI conducts studies looking at the genetic and cellular basis of many diseases including cancers, diabetes, infectious diseases, degenerative diseases and ageing. UMBI was given the recognition as a Higher Institution Centre of Excellence (HiCoE) by the Ministry of Education in 2009. UMBI also leads The Malaysian Cohort project, the largest prospective cohort project in the nation to identify risk factors for various diseases and to discover biomarkers for early detection of many diseases including cancers. The Malaysian Cohort Biobank is the largest biobank in South East Asia. UMBI is a member of the Asia Cohort Consortium and the P3G Consortium. UMBI now has its own building with fully equipped specialized laboratories for genomics, proteomics, cell culture, infectious diseases and also microgravity. UMBI offers MSc and PhD in molecular medicine by research. Foreign candidates can apply but must be fully sponsored by their government. For those who have a scholarship and are looking for a place to do their MSc or PhD, visit our website to learn more about UMBI or email to us to indicate your interest.

VISION

To be the leading institute in molecular medicine and achieve global recognition and excellence

MISSION

To be an excellent research institute by conducting basic, applied and translational research to improve health via personalised medicine

EDUCATIONAL GOALS

To produce postgraduates who are competent, confident, knowledgeable, ethical in molecular medicine and ready for the industry

ACADEMIC PROGRAMMES

There are two academic programs offered at UMBI (by research):

- **Masters of Science (Molecular Medicine)**
- **Doctor of Philosophy (Molecular Medicine)**



ENTRY REQUIREMENT

MASTER OF SCIENCE (MSc)

A good honours degree in related field from Universiti Kebangsaan Malaysia with CGPA ≥ 3.00 or other universities which are recognized by the UKM Senate.

A good honours degree in related field from Universiti Kebangsaan Malaysia with ≥ 3.00 or other universities which are recognized by the UKM Senate with at least one year experience in related field. UKM based evaluation grading system for international graduate students.

DOCTOR OF PHILOSOPHY (PHD)

A master's qualification related field from Universiti Kebangsaan Malaysia or other universities which are recognized by the UKM Senate.

TOEFL/IELTS REQUIREMENT

Foreign students are required to obtain a minimum score of 550 for the TOEFL or a Band 6 for the IELTS as a prerequisite for entry into graduate programmes at UKM.

PROGRAMME STRUCTURE

- Compulsory courses:
 - Research Methodology Course, Z1JJ6024
 - Medical Molecular Biology Course, Z1JJ6012
 - Advanced Medical Molecular Biology Course, JJJJ6012
- Masters of Science graduate students must meet **6 credits** and PhD students is **8 credits**.
- For doctoral degree, publication of at least **two** articles in journals indexed SCOPUS/ISI (accepted for publication)
- For master degree, publication of at least **one** article in journals indexed SCOPUS/ISI (accepted for publication)
- * All Masters and PhD candidates are required to submit 1 & 2 papers respectively for supervisors, Postgraduate Committee and Director's approval before going to VIVA.
- Students must present their research as follows:
 - Research proposal (First semester)
 - Research progress updates (Intermediate semesters)
 - Research findings (Final semester)
- Participation in seminars, workshops and training sessions related to research projects.
- Preparation and submission of the research thesis (follow Graduate Supervision Book)
- Viva voce examination

DURATION OF STUDY

Programme	Status	Duration
Master of Science	Full Time	2 – 6 Semesters
	Part Time	4 - 8 Semesters
Doctor of Philosophy	Full Time	6 – 12 Semesters
	Part Time	8 – 14 Semesters