

FACILITIES IN UMBI



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



MICROARRAY LABORATORY
2 Microarray Platforms
Affymetrix System
Illumina System



CELL CULTURE AND STEM CELL LAB
Cell culture facility
Confocal microscopy system



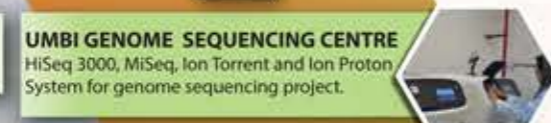
UMBI-ANGKASA MICROGRAVITY LAB
UMBI has been given the honour to host the first ever simulated microgravity system in the country.



CELL BIOLOGY LAB
Flow cytometry




RNA LABORATORY
Agilent 2100 Bioanalyzer



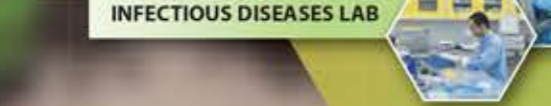
UMBI GENOME SEQUENCING CENTRE
HiSeq 3000, MiSeq, Ion Torrent and Ion Proton System for genome sequencing project.



BIOBANK: LARGEST IN SOUTH EAST ASIA
Main Biobank
2 satellite Biobanks (as back-up)



METABOLIC AND PROTEOMICS LAB
HPLC & UPLC Systems
ABSciex Triple TOF 5600 + LCMS/MS
Bruker Ultraflex MALDI TOF MS



INFECTIOUS DISEASES LAB

HOW TO APPLY?

Application to study at UMBI can be done online.

(<http://guest.ukm.my/>)



POSTGRADUATE PROGRAMMES

UKM MEDICAL MOLECULAR BIOLOGY INSTITUTE (UMBI)

ADMISSION REQUIREMENT



For more information, please contact :

Executive (Administration)
UKM Medical Molecular Biology Institute (UMBI),
Jalan Yaacob Latiff, Bandar Tun Razak,
56000 Cheras, Kuala Lumpur.

Tel: 603-91456321/9040 Fax: 603-91717185
Email: zakaria@ukm.edu.my
Website: <http://www.ukm.my/umbi>

Mengilham Harapan,
Mencipta Masa Depan

www.ukm.my/umbi



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 scholarship holders who are interested to enroll in a MSc or PhD programmes, please visit our website to learn more about UMBI or email to us.

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 and have good skills in molecular medicine and ready for the industry

ACADEMIC PROGRAMMES

There are two academic programmes offered at UMBI (by research)

Master of Science (Specialisation : Molecular Medicine)
Doctor of Philosophy (Specialisation : Molecular Medicine)

ENTRY REQUIREMENT

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

A honours degree in related field from Universiti Kebangsaan Malaysia with CGPA 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.

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

Foreign students are required to obtain a minimum score of 60 in TOEFL or Band 6 in IELTS or Band 4 in MUET as entry requirement for postgraduate programmes in UKM.

MASTER OF SCIENCE (MSc)

DOCTOR OF PHILOSOPHY (PhD)

TOEFL/IELTS REQUIREMENT

a) Compulsory courses:

- ▶ Research Methodology Course, Z1JJ6024
- ▶ Medical Molecular Course, Z1JJ6012
- ▶ Advanced Medical Molecular Biology Course, JJJJ6022

b) Students are required to complete a minimum of 6 credits (MSc) or 8 credits (PhD)

c) All graduates are required to publish a minimum of one (1) article (MSc) or two (PhD) in ISI indexed journals (accepted for publication)

*All article submission must be approved by the supervisor, Postgraduate Committee and Institute Director prior to *viva voce* examination.

d) Students must present their research as follows:

- ▶ Research proposal (First semester)
- ▶ Research progress updates (Intermediate semesters)
- ▶ Research findings (Final semester)

e) Participation in seminars, workshops and training sessions related to research project.

f) Preparation and submission of a research thesis (refer to the Graduate Supervision Book)

g) *Viva voce* examination

Graduate on time (GOT)

A student who graduated within the specified time.

GOT PhD

The PhD student must be approved by the Senate to graduate within **42 months (7 semesters)** from the date of registration as a PhD student

GOT Master

The Master student must be approved by the Senate to graduate within **30 months (5 semesters)** from the date of registration as a Master student.

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

Mengilham Harapan,
Mencipta Masa Depan

www.ukm.my/umbi