



INTERNATIONAL MEDICAL UNIVERSITY
MALAYSIA

25
YEARS
1992-2017

BETTER HEALTH
BETTER SOCIETY

SCHOOL OF
POSTGRADUATE STUDIES



MOLECULAR
MEDICINE (MSc)

2017

What Is IMU's Molecular Medicine Programme About?

Overview

Molecular medicine is a major focused area of contemporary medical research, and had facilitated recent breakthrough in disease diagnosis, management and treatments. For instance, it is now possible to elucidate multiple metabolites and toxins derived from drug based on interomics approaches, design highly specific and individualised treatments through genomics screening, bioinformatics and chemoinformatics assessment and enhance bioavailability of new drugs by making use of nano-delivery.

The MSc in Molecular Medicine is designed for science and medical graduates seeking advanced training in molecular and disease-oriented research. This programme aims to deliver an exceptional curriculum to equip students with skills that meet the highest demands and expectations of scientific rigour. The curriculum is innovative and draws on the expertise of our world-renowned faculty who are also passionate researchers. Core modules present the latest scientific developments in molecular medicine that are delivered through innovative andragogy. Students will appreciate the role of simple and complex molecules in human diseases and the ways in which systems biology, computational biology and chemical genetics have transformed research strategies and methodology in stem cell technology and therapeutics, drug design and development as well as medical and clinical research.

Upon completion, career paths are available as research scientists in academia, research institutes or industries worldwide. Graduates may also continue their education as PhD students at IMU or elsewhere.

DEGREE / DURATION

MSc in Molecular Medicine —
1½ – 4 years

COMMENCEMENT

March and September

A Word from the Programme Director

“The IMU MSc Molecular Medicine is recommended for science and medical graduates who are interested in molecular and disease-oriented research. It prepares students for career opportunities in medically focused biopharmaceutical and biotechnology industries; and equip students with enhanced skills to carry out research at a higher degree in specific fields. The combination of coursework and research project offers a well-grounded, theoretically-informed as well as research-intensive learning programme for a comprehensive understanding in the field.”

DR CHONG CHUN WIE — Lecturer & Programme Director
PhD (UM), BSc (Hons) Biochemistry (UM)

How Does the Programme Work?

Molecular Medicine Programme Structure

The IMU MSc Molecular Medicine programme consists of 2 semesters of coursework followed by a research project in the third semester. New semesters commence in March and September each year.

While all coursework classes are conducted on weekends to accommodate students that have personal or work commitment on weekdays; students that undertake the research project in the final semester would be required to be physically based in IMU. The minimum completion duration for the programme is 18 months while maximum duration is 4 years. A student must complete 40 credits (15 credits from core coursework modules, 5 from selective coursework modules and 20 from research project) to graduate.

Teaching and learning activities comprise both conventional and blended learning approaches that integrated into lectures, case studies, workshops, seminars, presentations, assignments, discussions and tutorials. There are no laboratory practical in each coursework module, except in the research project.

Core modules are as follows:

Molecular Medicine (3 credit)
Immunology and Infection (2 credit)
Molecular Basis of Diseases 1 (3 credit)
Molecular Basis of Diseases 2 (4 credit)
Research Methodology and Scientific Writing (3 credit)
Research Project (20 credit)

Selective modules are as follows:

Bench to Market (2 credit)
Bioinformatics (3 credit)
Clinical Research 1 (2 credit)
Clinical Research 2 (2 credit)
Laboratory Management (2 credit)
Stem Cell Technology and Therapeutics (3 credit)
Drug Discovery, Design and Development (3 credit)

The curriculum is reviewed periodically and is subject to change.

Assessment

In course assessment throughout the programme via written reports (case study report, critical reviews, assignments, CAL reports, scientific writing and etc.) and oral presentations in all coursework modules. Research dissertation, presentations and *viva voce* are used for research project evaluation. There are no end-of-semester examinations for all modules.

Entry Requirements

A bachelor's of science degree with minimum cGPA of 2.75 or equivalent in related discipline, as accepted by the HEP Senate; or

A bachelor's degree in related discipline with minimum cGPA of 2.50 and not meeting cGPA of 2.75, can be accepted subject to rigorous internal assessment; or

A bachelor's degree in related discipline not meeting cGPA of 2.50, can be accepted subject to a minimum of 5 years working experience in relevant field.

English Language Requirements

The Standard English Proficiency requirements for IMU programmes are usually, overall band scores of IELTS 6.0 or TOEFL 550 (PBT) or 79 (IBT), TOEIC 620, Pearson 55 (PTE), Cambridge 45 (CPE) or 52 (CAE) or MUET band 4 or any other recognised English language qualification. IMU also admits international students from countries in which English is the first language or from any Malaysian or international institutions where the curriculum is conducted fully in English.

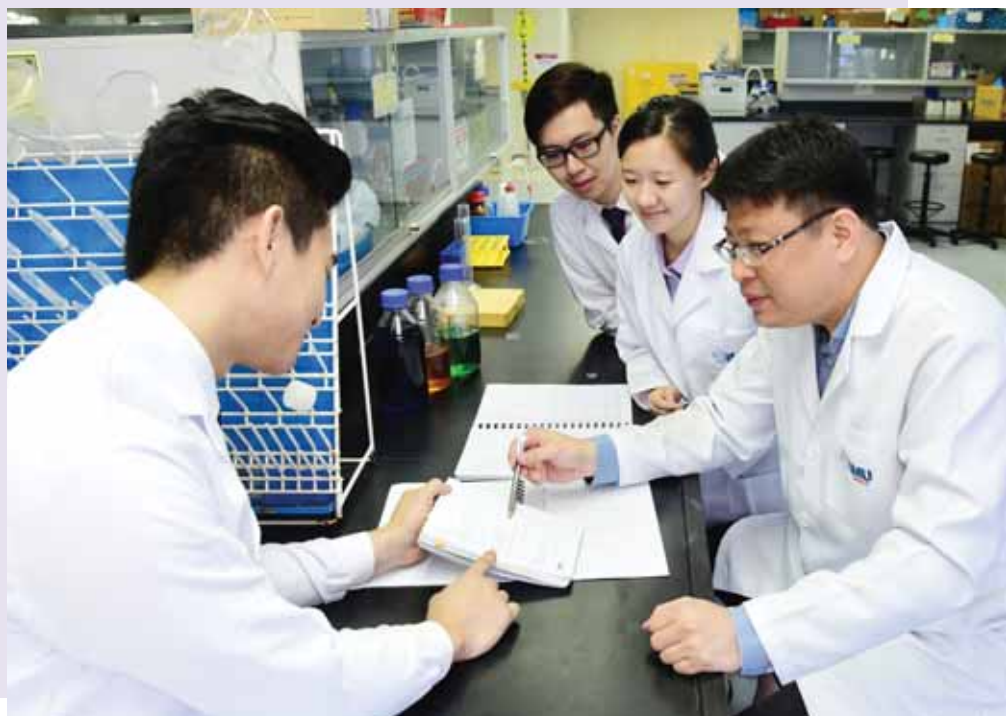
All students at entry who do not have proof of any of the above recognised competencies in the English language will be required to sit for an English Placement Test to assess their language competency. If any of the students fail the English Placement Test then they will be required to attend a course on Academic Writing. The English Placement Test and the Academic Writing Module are offered at a cost.



Top: Students will be benefited from the extensive network of credible and experience researchers from IMU partnering university. A/Prof Stuart Clarke from University of Southampton who is the Adjunct Associate Professor at IMU.

Left: IMU provides a conducive research environment to cater for various research projects addressing for current challenge in the field of Molecular Medicine.

Bottom: Problem based and challenge based learning will formed an integral part of the curriculum.



Why Study Molecular Medicine at IMU?

1

An Established Private Healthcare University

IMU is Malaysia's first and most established private medical and healthcare university with over 25 years of dedicated focus in healthcare education. IMU offers a range of postgraduate programmes and research in a number of subject areas related to health and healthcare solely by completion of a research-based thesis or a combination of coursework and completion of a research-based thesis.

2

Renowned and Highly Experience Faculty

Students will be taught and supervised by staff who are experts in their field with well-established reputations nationally and internationally. The academic community of IMU pursues and achieves excellence in a wide range of research activities. Many of them present their findings in international conferences to keep up to date with the latest development in specialised areas. They also publish their findings in international peer-reviewed journals.

3

Flexible Learning Options

The delivery of this programme is based on a modular basis and is conducted using conventional classes on weekends, and off-campus blended learning mode on week days. Students could take up to four years to complete the entire programme, enabling full-time working adults the options to plan and fit their studies around their work, family and other commitments.

4

Innovative Curriculum

The curriculum of this programme is innovative, carefully planned and aligned to meet the demands and expectations in the molecular medicine field. This would offer great career advancement as a research scientist in academia, research institutes, clinical setting or industries worldwide. It would also pave the way into furthering studies into PhD in IMU or elsewhere.

5

Research Partnerships

Students will benefit from the University's research collaborations with various partner universities, as well as foreign and locals research institutions in areas such as cancer, bioactive molecules, nutrition, environmental health, stem cells etc.

How Much Does It Cost?

Molecular Medicine Programme Fees

All fees quoted are in Ringgit Malaysia unless stated otherwise.

All IMU alumni who are self-funding their postgraduate studies and meet the eligibility criteria will be eligible for a reduction in tuition fees.

FEES OVERVIEW

Fee	Amount (RM)	
	Malaysian Student	International Student
Application Fee	150	450
Registration Fee	1,100	3,400
Refundable Caution Deposit	2,000	2,000
Student Association Fee per Semester	40	40
Tuition Fee	40,000	53,650

- Application fee is payable upon submission of application.
- Registration fee and refundable caution deposit are payable upon acceptance of the offer letter issued by the IMU Admissions Office.

ESTIMATED FEES BY SEMESTERS*

Semester	Total (RM)	
	Malaysian Student	International Student
Semester 1	10,000	13,600
Semester 2	10,000	13,300
Semester 3	20,000	26,750
Grand Total	40,000	53,650

*Subject to number of credits registered per semester

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Programmes at IMU

Pre-University

Foundation in Science
KPT/JPT(N/010/3/0186)09/2018

Undergraduate

Medicine
KPT/JPT(R/721/6/0033)09/2019

Dentistry
KPT/JPT(R/724/6/0010)10/2020

Pharmacy
KPT/JPT(R/727/6/0050)09/2019

Pharmaceutical Chemistry
KPT/JPT(R/442/6/0003)01/2018

Dietetics with Nutrition
KPT/JPT(R/726/6/0021)09/2017

Nutrition
KPT/JPT(N/726/6/0011)06/2017

Biomedical Science
KPT/JPT(R/421/6/0011)12/2017

Medical Biotechnology
KPT/JPT(R/545/6/0014)09/2017

Psychology
KPT/JPT(R/311/6/0013)09/2017

Chiropractic
KPT/JPT(R/726/6/0054)08/2019

Chinese Medicine
KPT/JPT(R/721/6/0059)01/2020

Nursing Science
(for registered nurses)
KPT/JPT(R/723/6/0101)01/2019

Teaching Methodology
(Post Basic Certificate)
KPT/JPT(N/723/3/0121)09/2019

Postgraduate

Public Health (MSc)
KPT/JPT(R/720/7/0077)09/2020

Analytical & Pharmaceutical
Chemistry (MSc)
KPT/JPT(N/442/7/001)01/2017

Molecular Medicine (MSc)
KPT/JPT(N/421/7/0010)07/2017

Pharmacy Practice (Master)
KPT/JPT(N/727/7/0051)03/2019

Medical & Health Sciences
(MSc & PhD by Research)
KPT/JPT(R/721/8/0043)01/2020
KPT/JPT(R/720/7/0049)06/2019

Health Professions Education (HPE)
(Postgraduate Certificate/
Postgraduate Diploma/Master)
KPM/JPT(N/145/7/0066)09/2020
KPM/JPT(N/145/7/0064)09/2020
KPM/JPT(N/145/7/0070)09/2020

Implant Dentistry (Postgraduate Diploma)
KPT/JPT(N/724/7/0019)06/2021



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ISO 9001:2008 Cert. No. KLR 0500119

The IMU has been KLR certified with MS ISO 9001:2008 for the provision of tertiary education in medicine, pharmacy and health sciences.

Every effort has been made to ensure the accuracy of the information given in this brochure but it is subject to alteration without notice.

The University reserves the right to alter or delete any of the information included at any time and it shall not be bound by any errors or omissions and cannot accept liability in respect thereof.

Please visit www.imu.edu.my for the most up-to-date information.

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