

Star Special

THE STAR, TUESDAY 19 SEPTEMBER 2023

POSTGRADUATE

MANAGEMENT and Science University (MSU) is dedicated to innovation and invention. The university firmly believes research can impact policies, transform organisations and improve the quality of life for people worldwide. By aligning research with the United Nations Sustainable Development Goals (SDGs), MSU can address the most pressing challenges facing communities and the planet. Through cross-disciplinary collaborations, MSU researchers are tackling

Special honours at expo

global concerns.

Innovators, researchers and experts committed to establishing a healthier future by strengthening the healthcare and life sciences frontiers convened at the Malaysia Technology Expo (MTE) 2023 Advanced

Healthcare and Life Sciences International Innovation Awards & Expo (AHLIS).

MSU researchers achieved remarkable success at the MTE 2023 AHLIS, securing a total of 14 awards: two special awards, six golds, five silvers and one bronze. They did so with a total of 12 entries. The research areas primarily focused on the SDGs including No Poverty (1), Good Health and Well-Being (3), Quality Education (4), Affordable and Clean Energy (7), Industry, Innovation and Infrastructure (9), Reduced Inequalities (10), Sustainable Cities and Communities (11), Responsible Consumption (12), and Climate Action (13).

Researchers came from the Faculty of Health and Life Sciences (FHLS), School of Pharmacy (SPH), School of Graduate Studies (SGS), Faculty of Information and Science Engineering (FISE), School of Education and Social Sciences (SESS), Centre for Fundamental Studies (CFS), Centres of Excellence (CoE) – MSU iCARE, and MSU Medical Centre (MSUMC).

In addition, various industry and institution partners, including Universiti Teknologi Brunei (UTB), Universitas Airlangga (UNAIR), Universiti Putra Malaysia (UPM), Ganofarm Sdn Bhd, Institute for Medical Research (IMR), Forest Research Institute Malaysia (FRIM), Universiti Teknologi Mara (UiTM), Universiti Kebangsaan Malaysia (UKM), Universiti Sains Malaysia (USM), Curtin University Malaysia, Curtin Biovalley Sdn Bhd, Ganoform Sdn Bhd, Institute for Medical Research (IMR), Forest Research Institute Malaysia (FRIM) and the Standard and Industrial Research Institute of Malaysia (SIRIM) were involved. On top of that, MSU postgraduate students pursuing a Master in Science (by Research) Biomedicine (MBM) and undergraduates studying for a Bachelor of Pharmacy (Hons) (BPH) and a Bachelor of Biomedical Science (Hons) (BBM) also participated in this endeavour.

The team, led by Fairuz Mohd Nordin (FHLS), received two special awards from the International Society for Pharmaceutical Engineering (ISPE) and the Macau Invention Association (MIIA), as well as a gold award for their research work on the Module of Eye Health Screening and Assessment (MESrA) – Vision Screening Module for Non Eye Care Practitioner to assist Prevention of Blindness.

The team members included Assoc Prof Dr Mohd Zaki Awang Isa (CoE-Icare), Dr Azlindarita @ Aishah Mohd Abdullah (MSUMC), Maliati Mohammad (CFS), Jasmina Annie George (SESS) and Asmaa' Najihah Mohd Nazri (MBM). They developed a training module for teachers and educated communities in rural areas to facilitate vision screening for underserved children and promote early prevention and intervention for visual impairment.

Five other golds went to FHLS, FISE, and SGS research projects. The projects are:

- MSU Assessment Chart for Children with Special Needs, led by Assoc Prof Dr Mohd Zaki Awang Isa (CoE-iCARE) with team members Fairuz Mohd Nordin (FHLS), Kevin Loo Teow Aik (FISE) and Mohamad Khamal Haqqim (MBM);

- Avena S Cream for The Treatment of Psoriasis, Eczematous and Dry Skin, led by Saeid Mezail Mawazi (SPH) with team members Mohammed Kaleemullaju (SPH) and Tong Jo Ann (BPH);

- DiRetina: Smartphone Fundus Imaging for Intelligent Detection of Eye Diseases (Diabetic Retinopathy), led by Assoc Prof Dr Muhammad Irsyad Abdullah (FISE) with team members Assoc Prof Dr Mohd Zaki Awang Isa (CoE-iCARE); Assoc Prof Ts Dr Safaa Najah Saud Al-Humairi (FISE); Kevin Loo Teow Aik (FISE); senior assistant Prof Dr Lim Tiong Hoo (UTB); Rimuljo Hendradi (UNAIR); and Muhammad Fikhri Abdul Aziz (FISE);

- Synergistic Effect of Ganoderma Lucidum And Clitoria Ternatea Extract on Improvement of Psoriasis Using Rat Model, led by Dr Mahathir Mohd Uzd (SGS) with team members Muhammad Danial Che Ramli (FHLS), Anita Zara Weinheimer (FHLS), Dr Poh (Ganofarm) and Nurul Ashikin Razali, a BBM student; and

- Liberia Coffee Peel Yoghurt Drink for Hypercholesterolaemia Reduction, led by Dr Azrina Zainal Abidin (FHLS) with team members Dr Santhra Segaran Balan (FHLS), Assoc Prof Dr Hasnah Bahri (UPM), Nor Elianis Nor Khairani (BBM) and Nor Azeera Mohd Ali (FHLS).

MSU is proud to recommend the degree of Doctor of Philosophy (PhD) and Master programmes that emphasise and recognise innovative research, scientific knowledge and industrial application at both domestic and international platforms.

A PhD is the highest degree awarded by MSU. It signifies the pinnacle of academic and professional standing. Doctoral training involves close working relationships with leading faculty members on projects of key interest; industrial and scientific focus.

With advanced facilities and technical support, MSU provides an excellent academic climate for postgraduate engagements with faculty members. MSU faculty members are highly active in top-level research, with leading projects in a wide range of areas and interests, requiring innovative approaches that push the boundaries of interdisciplinary research.

The postgraduate studies at MSU through SGS offers advanced degrees at MSc and PhD levels covering wide areas including Computer Science, Information and Communication Technology, Food Service Technology, Biomedicine, Engineering, Applied Science, Health Sciences, Biomedical Sciences, Information Technology, Clinical Pharmacy, Pharmacy, Design, Medical Physiology, Public Health and Anatomy.

MSU president Prof Tan Sri Dr Mohd Shukri Abd Yajid (centre) with a team of MSU's researchers.



31 YEARS of Nurturing Medical and Healthcare Professionals

Since 1992, IMU has been nurturing high caliber medical and healthcare professionals with a holistic approach and integration in education, research and healthcare in Malaysia. IMU is the first private medical university to receive MQA's self-accreditation status and awarded SETARA tier 6 status (outstanding) in 2017 and 2019.



CENTRE FOR PRE-UNIVERSITY STUDIES

- Foundation in Science
KPT/JPT(R2/010/3/0186)/09/2028 | MQA/FA3974
APR | JUL | SEP

SCHOOL OF MEDICINE

- Clinical Psychology (Master) **NEW**
KPT/JPT(N/0313/7/0001)/07/2027 | MQA/PSA15641
SEP
- Counselling (Master)
KPT/JPT(N/762/7/0046)/09/2026 | MQA/FA12002
SEP
- Digital Health
KPT/JPT(N/482/6/0209)/03/2028 | MQA/PSA14380
JUL | SEP
- Medicine
KPT/JPT(R/311/6/0013)/09/2027 | MQA/FA1177
FEB | SEP
- Psychology
KPT/JPT(R/311/6/0013)/09/2027 | MQA/FA1177
FEB | SEP

SCHOOL OF DENTISTRY

- Dentistry
KPT/JPT(R/3/24/6/0010)/01/2030 | MQA/FA7026
FEB
- Endodontics (PG Dip)
KPT/JPT(R/724/7/0003)/05/2029 | MQA/PSA12162
MAY
- Implant Dentistry (PG Dip)
KPT/JPT(R/724/7/0019)/06/2026 | MQA/PSA6111
OCT
- Prosthodontics (PG Dip)
KPT/JPT(R/0911/7/0002)/05/2029 | MQA/PSA12163
JUN

SCHOOL OF PHARMACY

- Pharmaceutical Chemistry
KPT/JPT(R/3/442/6/0003)/01/2028 | MQA/FA8229
FEB | MAY | JUL | SEP
- Pharmacy
KPT/JPT(R/2/72/6/0005)/09/2026 | MQA/FA8374
JUL | SEP

SCHOOL OF HEALTH SCIENCES

- Biomedical Science
KPT/JPT(R/3/421/6/0011)/12/2027 | MQA/FA8230
JUL | SEP
- Diabetes Management and Education* (PG Dip)
KPT/JPT(N-DL/0915/7/0004)/11/2027 | MQA/PSA16046
MAR | JUL
- Dietetics with Nutrition
KPT/JPT(N-DL/0915/7/0004)/11/2027 | MQA/PSA16046
JUL | SEP
- Medical Biotechnology
KPT/JPT(R/2/545/6/0014)/09/2027 | MQA/FA15505
JUL | SEP
- Nursing
KPT/JPT(R/723/6/0125)/04/2027 | MQA/FA8944
SEP
- Nursing**
KPT/JPT(N-DL/0913/6/0001)/09/2029 | MQA/PA14397
FEB | SEP
*Available to registered nurses only
- Nutrition
KPT/JPT(R/2/6/6/0011)/06/2027 | MQA/FA1298
JUL | SEP

CENTRE FOR COMPLEMENTARY AND ALTERNATIVE MEDICINE

- Acupuncture (MSc)
KPT/JPT(R/721/7/0071)/03/2027 | MQA/PSA8570
SEP
- Chinese Medicine
KPT/JPT(R/2/721/6/0059)/01/2027 | MQA/FA10260
SEP
- Chiropractic
KPT/JPT(R/726/6/0054)/08/2026 | MQA/FA2994
MAR | SEP

SCHOOL OF POSTGRADUATE STUDIES

- Analytical and Pharmaceutical Chemistry* (MSc)
KPT/JPT(R2-CDL/442/7/0001)/01/2027 | MQA/FA1191
KPT/JPT(N-DL/0915/7/0004)/11/2027 | MQA/PSA11367
MAR | SEP
- Business Administration in Healthcare Management (PG Cert / PG Dip / Master)
KPT/JPT(R/345/7/1082)/09/2028 | MQA/PSA11354
KPT/JPT(R/345/7/1090)/12/2028 | MQA/PSA11355
KPT/JPT(R/345/7/1085)/10/2028 | MQA/PSA11353
MAR | SEP
- Health Professions Education (PG Cert* / PG Dip / Master)
KPT/JPT(N-DL/145/7/0120)/02/2026 | MQA/PSA14379
KPT/JPT(R/145/7/0066)/09/2025 | MQA/PSA05162
KPT/JPT(R/145/7/0064)/09/2025 | MQA/PSA163
KPT/JPT(R/145/7/0070)/09/2025 | MQA/PSA164
MAR | SEP
- Health Informatics and Analytics (PG Cert / PG Dip / Master)
KPT/JPT(N/720/7/0131)/09/2025 | MQA/PSA13973
KPT/JPT(N/720/7/0130)/09/2025 | MQA/PSA13972
KPT/JPT(N/720/7/0129)/09/2025 | MQA/PSA13974
SEP
- Molecular Medicine* (MSc)
KPT/JPT(R2/545/7/0078)/07/2027 | MQA/FA1299
KPT/JPT(N-DL/545/7/0101)/09/2025 | MQA/PSA11357
MAR | SEP
- Pharmacy Practice (Master)
KPT/JPT(R2/0916/7/0011)/03/2029 | MQA/PSA02796
MAR | SEP
- Public Health* (MSc)
KPT/JPT(R2/720/7/0077)/09/2025 | A10261
KPT/JPT(N-DL/545/7/0101)/09/2025 | MQA/PSA11356
MAR | SEP
- Medical and Health Sciences (MSc / PhD)
KPT/JPT(R2/720/7/0049)/06/2026 | A10618
KPT/JPT(N-DL/545/7/0101)/09/2025 | A3767
Throughout the year

* Available in Conventional and Open & Distance Learning mode (ODL)



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MICHELLE Lee Yee Shuen has always been driven by a deep passion for learning and expanding her knowledge. She holds a BSc in Biomedical Sciences and has worked as a Molecular Genetic Technologist in a cutting-edge genomics company, where she was exposed to the latest state-of-the-art Next Generation Sequencing (NGS) technologies. Her undying thirst for knowledge led her to pursue the MSc in Molecular Medicine (MMM) at International Medical University (IMU).

"The MMM's impeccable reputation, combined with study and research-based learning, made it an enticing choice. The cherry on top was the flexibility of online distance learning (ODL), which gave me the freedom to learn on my terms. I knew from the beginning that this would be an intellectually stimulating challenge.

"The interactive and engaging learning activities, such as group discussions and debates, made the learning process enjoyable and meaningful. These sessions challenged me to think critically and helped me to develop my problem-solving skills. Furthermore, I discovered the power of effective time management, which proved to be game-changing not just for my academic pursuits, but for my personal and professional life as well.

"Undoubtedly, the research project was the most exhilarating and challenging aspect of my MMM studies. My research project delved into exploring the possible genetic connection between Autism Spectrum Disorder (ASD) and obesity, utilising bioinformatics approaches to scrutinise genomic variants linked with both disorders.

"As the project's complexity unfolded, I found myself struggling with the sheer volume of data I had to analyse and comprehend. Reading and comprehending vast volumes of scientific literature, and familiarising myself with the new techniques and underlying

Journey of passion and growth

principles of the project took considerable effort. Despite these challenges, my main supervisor Dr Nurul Hanis Ramzi and co-supervisor Dr Nikman Adli Nor Hashim (from Universiti Malaya) were incredibly supportive and provided me with the guidance and resources I needed to succeed.

"One of the most memorable moments of my studies was the incredible opportunity to visit AGTC Genomics, a top-notch Malaysia-based centre of excellence for genomics technology, accompanied by my supervisors. The visit left an indelible impression on me, as I was struck by the laboratory's immaculate condition and state-of-the-art equipment. The working atmosphere was cosy and efficient, providing a perfect environment for the friendly and knowledgeable staff to undertake groundbreaking research. What's more, their scientists are distinguished authorities in the field of NGS.

"Achieving a distinction in this course stands as a testament to the exceptional education I received and a pinnacle of my academic journey. This degree has opened up a world of opportunities, and I am thrilled to embark on the next phase of this incredible journey with optimism and excitement."

The IMU MMM programme prepares students for career opportunities in medically focused biopharmaceutical and biotechnology industries; and equips students with enhanced skills to carry out

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research at a higher degree in specific fields. The combination of coursework and research projects offers a well-grounded, theoretically informed as well as research-intensive learning programme for a comprehensive understanding of the field. Eligible full-time students can gain an additional MSc in Genomic Medicine from Queen Mary University of London

(QMUL) in parallel to the MMM at IMU as part of a double award programme.

The commencement of this programme is in March and September. If you are interested in joining this programme, make an online application today.

■ For more information, call 03-2731 7272, email postgraduate@imu.edu.my or visit www.imu.edu.my.

Michelle Lee Yee Shuen.



MEGA | 20 SEPT 2023

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