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# EXHIBITION

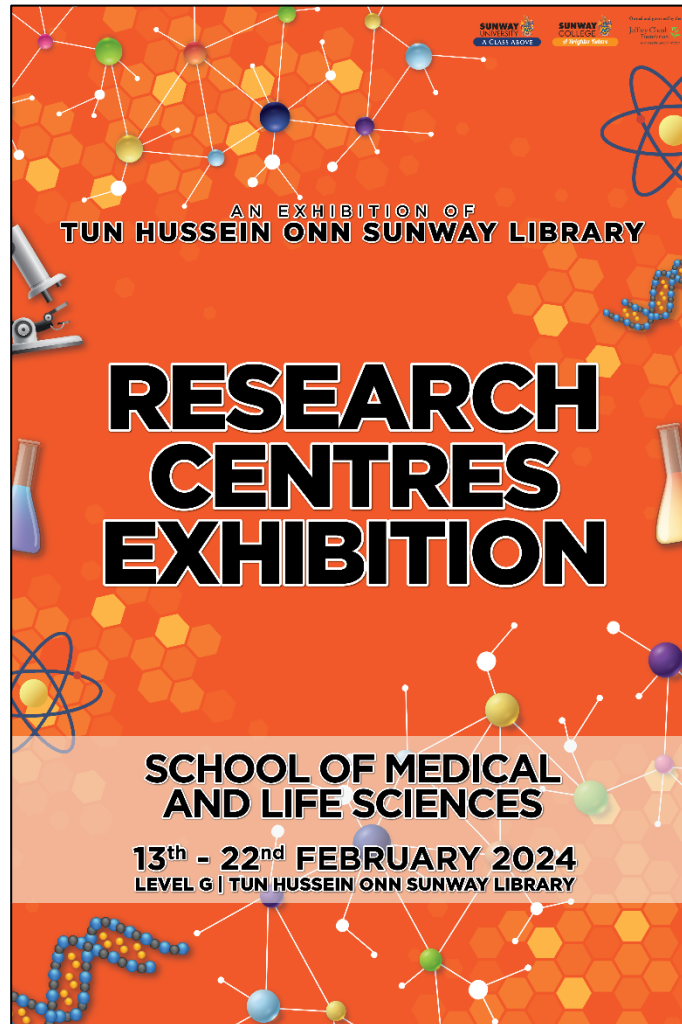
SCHOOL OF MEDICAL AND LIFE SCIENCES

13 – 22 FEBRUARY 2024

# THE SCHOOL OF MEDICAL AND LIFE SCIENCES







Welcoming Board

## SCHOOL OF MEDICAL AND LIFE SCIENCES

### INTRODUCTION

**SUNWAY UNIVERSITY**

School of **MEDICAL & LIFE SCIENCES**

The School of Medical and Life Sciences (SMLS) at Sunway University was established in 2021. It evolved from the School of Health and Medical Sciences, incorporating departments and research centers from the former School of Science and Technology. SMLS comprises of five departments and three research centers.

### FIVE DEPARTMENTS

- ▶ Department of Biological Sciences
- ▶ Department of Psychology
- ▶ Department of Medical Sciences
- ▶ Department of Nursing
- ▶ Research Centres

### RESEARCH CENTRES

▶ Sunway Microbiome Centre

Source: <https://sunwayuniversity.edu.my/>

▶ Sunway Biofunctional Molecules Discovery Centre (SBMDC)

Source: Published

▶ Aging Health and Well-being Research Centre (CARE)

Source: <https://sunwayuniversity.edu.my/>

### MEET THE LEADER

Professor Raja Affendi Raja Ali, the Dean and Professor of School of Medical and Life Sciences (SMLS).

Prof. Raja Affendi Raja Ali was appointed as the Secretary General of the Asian Pacific Association of Gastroenterology (APAGE) for the term 2023-2025 and the Chair of APAGE Emerging Leaders (Y-APAGE) Committee.

### RESEARCH FOCUS AREAS

School of Medical and Life Sciences (SMLS) prioritizes advancing healthcare and medical sciences and collaborates with local and international universities and institutions.

Priority research areas:

▶ Healthy Ageing

▶ Non-communicable Disease

▶ Communicable Disease

▶ Eco-Health

▶ Organizational Health

Source: <https://sunwayuniversity.edu.my/school-of-medical-life-sciences>

RESEARCH CENTRES EXHIBITION 13th - 22nd FEBRUARY 2024

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## SCHOOL OF MEDICAL AND LIFE SCIENCES

### RESEARCH ACTIVITIES

#### PAST RESEARCH PROJECTS

- Development of a multi-epitope synthetic peptide vaccine against dengue virus, aimed at eliciting protective CD8+T cells and improving immunogenicity through nanoparticles and adjuvants.
- Development of antiviral peptides against dengue virus, focusing on novel peptidomimetics targeting viral structural and non-structural proteins.
- Development of a novel multiply mutated live attenuated vaccine strain against Enterovirus 71 (EV-A71), a leading pathogen of hand, foot, and mouth disease.
- Research on microRNAs as potential therapeutics against dengue virus, evaluating the efficacy of miRNAs with known antiviral mechanisms.

#### ONGOING PROJECTS

There are more than 25 ongoing research projects supported by various grants such as AIDS Healthcare Foundation, LRGS, FRGS, Yayasan Penyelidikan Otak, Minda dan Neuronsains Malaysia, LOREAL, Sunway South Quah Sdn Bhd, as well as Sunway University. **Scan the QR Code for more details.**



#### CONFERENCES AND WORKSHOPS

- Postgraduate research symposium "Soaring Upwards: Innovation Unleashed" on 4th July 2023.
- Vermicomposting workshop on 15 April 2023, in conjunction of Chemists Celebrate Earth Week 2023.
- Visit from T.I. School Ambattur, India on 22-23 February 2023.
- Visit from Otsuna Women's University, Tokyo in September 2023. The students were participating in a workshop on biological factors of wellbeing and sustainability.
- Visit from Dr Azlina Kassim and Liza Vadivelu from Bangor University in January 2023 to explore collaborations in academic mobility and research.
- Ready, Set, Breathe 2023 Lung Cancer Awareness Fun Run on 20th of December 2023. Collaborated with Lung Cancer Network Malaysia LCNM and MAKNA - Majlis Kanser Nasional.
- International Universal Health Coverage Day on 12 December 2023 collaborated with NCD Malaysia, the National Cancer Society Malaysia, and the Malaysian Medical Association-Public Health Society (MMA-PHS).
- Book launch "Expect the Unexpected", penned by our very own Prof Datin Dr Chia Yook Chin of SMLS and Dr Ng Wei Leik from University of Malaya, and published by Sunway University Press.
- Industry Networking (INET) on 19 - 20 October 2023.
- Congratulations to Shireen Ali our BSc (Hons) Biomedicine student on her recent achievement as a Top 10 diabetologist in Asia, and as a team, ranked 2nd best in Asia!
- Department of Medical Sciences, the Department of Nursing, and the Malaysian Society for World Action on Salt, Sugar and Health conducted health assessments for over 800 participants in conjunction with the "Sunway University Campus with a Conscience" week from 18-22 September 2023.
- Research visit led by Prof. Dr. Hasniza Zaman Huri from Faculty of Pharmacy Universiti Malaya.
- A delegation from University of Newcastle led by Pro Vice-Chancellor (Global Partnerships) Professor Sunny Yang, together with Pro Vice-Chancellor of the College of Health, Medicine and Wellbeing, Professor Elizabeth Sullivan, and Professor Alison Hutton - Assistant Dean.

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## SCHOOL OF MEDICAL AND LIFE SCIENCES

### AWARDS AND RECOGNITION

NAME	AWARD
Professor Ts Goh Bey Hing	Top Research Scientists Malaysia (TRSM) 2023.
Professor Dr. Alvin Lai Oon Ng	Fellow of Malaysian Association for Study of Obesity 2023.
Professor Datin Dr. Chia Yook Chin	2022 Graham MacGregor Excellence Award in Dietary Salt Reduction.
Tan Yi Huan	Best ePoster Award at the GUT2023 Annual Scientific Meeting.

► Full-time staff listed as top 2% scientists.

► Lee Learn Han, Professor

► Goh Bey Hing, Professor

► Long Chiau Ming, Professor

► Rebecca Wong Shin Yee, Professor

► Chia Yook Chin, Professor Datin

► Yong Shin Jie


### HIGH-IMPACT RESEARCH ACHIEVEMENTS

- Dr Felicia Chung Fei Lei's publication. Das, S., S. Thakur, M. Korenjak, V. S. Sidorenko, F. F. Chung, and J. Zavadil. 2022. 'Aristolochic acid-associated cancers: a public health risk in need of global action', Nature Reviews Cancer, 22: 576-91
- Dr Aleya Marzuki's research. Biria, M., P. Banca, M. P. Healy, E. Keser, S. J. Sawiak, C. T. Rodgers, C. Rua, Amfip de Souza, A. A. Marzuki, A. Sule, K. D. Ersche, and T. W. Robbins. 2023. 'Cortical glutamate and GABA are related to compulsive behaviour in individuals with obsessive compulsive disorder and healthy controls', Nature Communication, 14: 3324
- Kasim's study. Kasim, S. S., N. Ibrahim, S. Malek, K. S. Ibrahim, M. F. Aziz, C. Song, Y. C. Chia, A. S. Raml, K. Negishi, and N. Mat Nasir. 2023. 'Validation of the general Framingham Risk Score (FRS), SCORE2, revised PCE and WHO CVD risk scores in an Asian population', Lancet Reg Health West Pac, 35: 100742
- Lim's research. Lim, L. L., E. S. H. Lau, A. P. S. Kong, A. W. C. Fu, V. Lau, W. Jia, W. H. H. Sheu, L. Sobrepenna, K. H. Yoon, A. T. B. Tan, Y. C. Chia, A. Sosale, B. D. Saboo, J. Kesavadev, S. Y. Goh, T. K. Nguyen, Y. Thewjitcharoen, R. Suwita, R. C. W. Ma, E. Y. K. Chow, A. O. Y. Luk, and J. C. N. Chan. 2023. 'Gender-associated cardiometabolic risk profiles and health behaviors in patients with type 2 diabetes: a cross-sectional analysis of the Joint Asia Diabetes Evaluation (JADE) program', Lancet Reg Health West Pac, 32: 100663.

### PUBLICATIONS

More than 350 research papers have been published by SMLS since inception in 2021.

► **Most cited paper**  
Long COVID or post-COVID-19 syndrome: putative pathophysiology, risk factors, and treatments: Infectious Diseases: Vol 53, No 10 which is currently the journal's most cited article in the last three years (more than 500 times).





















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## SCHOOL OF MEDICAL AND LIFE SCIENCES

### TOP RESEARCHERS



















 <p><b>LEE EARM HAN, PROFESSOR</b>  <b>Research Interests</b>            ▶ Microbiomics            ▶ Multidrug-Resistant Pathogens            ▶ Microbial Systematics            ▶ Microbial Taxonomy            ▶ Bioprospection</p> <p>Publications  <b>107</b></p> 	 <p><b>CHIA YOOK CHIN, PROFESSOR, DATIN</b>  <b>HEAD OF DEPARTMENT AND PROGRAMME LEADER OF POSTGRADUATE DIPLOMA IN PRIMARY CARE FOR ELDERLY</b>  <b>Research Interests</b>            ▶ Hypertension            ▶ Salt reduction to improve health            ▶ Primary care problems in older adults</p> <p>Publications  <b>93</b></p> 	 <p><b>SER HOOI LENG, DR.</b>  <b>DR LECTURER</b>  <b>Research Interests</b>            ▶ Microbiome and human health            ▶ Microbial systematics and taxonomy            ▶ Bioprospecting and drug discovery from microbes and plants            ▶ Multidrug-resistant organism</p> <p>Publications  <b>52</b></p> 
 <p><b>REBECCA WONG SHIN YEE, PROFESSOR</b>  <b>Research Interests</b>            ▶ Stem Cells            ▶ Cancer            ▶ Medical Education</p> <p>Publications  <b>48</b></p> 	 <p><b>ELIL RENGANATHAN, PROFESSOR</b>  <b>PROFESSOR OF PUBLIC HEALTH AND POLICY</b>  <b>Research Interests</b>            ▶ Public health            ▶ Health Policy            ▶ Global Health and Governance            ▶ Evaluation and Organizational Learning in Health            ▶ Health Diplomacy</p> <p>Publications  <b>46</b></p> 	 <p><b>SAY YEE HOW, DR</b>  <b>PROGRAMME LEADER OF BSC (HONS) BIOMEDICINE</b>  <b>Research Interests</b>            ▶ Nutigenetics            ▶ Cancer Biology            ▶ Neoplasia            ▶ Genetic Epidemiology</p> <p>Publications  <b>33</b></p> 
 <p><b>LONG CHIAU MING, PROFESSOR</b>  <b>ASSOCIATE DEAN (RESEARCH AND POSTGRADUATE STUDIES)</b>  <b>Research Interests</b>            ▶ Health Economics            ▶ Regulatory Affairs            ▶ Pharmaceutical Sciences            ▶ Digital Health</p> <p>Publications  <b>33</b></p> 	 <p><b>FELICIA CHUNG FEI LEI, ASSOCIATE PROFESSOR DR.</b>  <b>PROGRAMME LEADER OF BSC (HONS) MEDICAL BIOTECHNOLOGY</b>  <b>Research Interests</b>            ▶ Cancer Cell Biology            ▶ Cancer Epigenetics            ▶ Intratumour Heterogeneity</p> <p>Publications  <b>29</b></p> 	 <p><b>WU YUAN SENG, DR.</b>  <b>PROGRAMME LEADER OF DOCTOR OF PHILOSOPHY IN BIOLOGY</b>  <b>Research Interests</b>            ▶ Molecular pharmacology            ▶ Molecular biochemistry            ▶ Cancer pharmacology and therapeutics            ▶ Drug discovery for cancers, viruses, and metabolic diseases            ▶ Pharmacogenosy            ▶ Nano-targeting and nano-drug delivery</p> <p>Publications  <b>24</b></p> 

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## SCHOOL OF MEDICAL AND LIFE SCIENCES

### TOP RESEARCHERS

 <p><b>HWANG JUNG SHAN, ASSOCIATE PROFESSOR DR.</b>  <b>PROGRAMME LEADER OF PHD AND MSC IN MEDICAL SCIENCES</b>  <b>Research Interests</b>            ▶ Cnidarian Toxins            ▶ Host Innate Immune Response To Toxins            ▶ Clinical And Experimental Studies Of Rheumatoid Arthritis</p> <p>Publications  <b>24</b></p> 	 <p><b>LIN MEI-HUA, ASSOCIATE PROFESSOR DR.</b>  <b>ASSOCIATE DEAN (EMPLOYABILITY AND ENGAGEMENT)</b>  <b>PROGRAMME LEADER OF PHD IN PSYCHOLOGY</b>  <b>Research Interests</b>            ▶ Trust And Mistrust Development In Organisations            ▶ Teamwork In Organisations            ▶ National Differences In Cognition            ▶ Decision Making And Sense-making</p> <p>Publications  <b>20</b></p> 	 <p><b>CHEW JACTTY, ASSOCIATE PROFESSOR DR.</b>  <b>ASSOCIATE DEAN (EDUCATION)</b>  <b>Research Interests</b>            ▶ Antibiotic Resistance            ▶ Development Of Antibacterial Agents            ▶ Bacterial Pathogenesis            ▶ Sun Bear Population Genetics</p> <p>Publications  <b>20</b></p> 
 <p><b>GOTHA SIVAPRAGASAM, DR.</b>  <b>LECTURER</b>  <b>Research Interests</b>            ▶ Cancer Biology            ▶ Inflammatory Diseases            ▶ Nanotechnology            ▶ Natural Products</p> <p>Publications  <b>18</b></p> 	 <p><b>LAU TZE PHENG, DR.</b>  <b>LECTURER</b>  <b>Research Interests</b>            ▶ Cancer Genetics On Solid Tumours            ▶ Molecular Pathology To Aid In The Diagnosis, Prognostication, And Treatment, Response Prediction Of Cancer Patients</p> <p>Publications  <b>17</b></p> 	 <p><b>CHOOK JACK BEE, DR.</b>  <b>SENIOR LECTURER</b>  <b>Research Interests</b>            ▶ Mutational analysis and epigenetic profiling of hepatitis B virus-associated disease outcome            ▶ Molecular epidemiology of respiratory viruses            ▶ Assay design for real-time absolute quantification of viruses            ▶ Comparative genomic analysis of viruses            ▶ Mathematical modelling of infectious diseases            ▶ MicroRNA profiling in communicable and non-communicable diseases</p> <p>Publications  <b>16</b></p> 
 <p><b>WOO PEI JUN, DR.</b>  <b>HEAD OF DEPARTMENT</b>  <b>Research Interests</b>            ▶ Taste Perception In Infants, Children And Adults            ▶ Implicit And Explicit Racial Bias In Children And Adults            ▶ Word Learning In Bilingual And Monolingual Infants            ▶ Taste Perception In Bilingual And Monolingual Infants</p> <p>Publications  <b>16</b></p> 	 <p><b>YOW YOON YEN, ASSOCIATE PROFESSOR DR.</b>  <b>PROGRAMME LEADER OF MSC IN LIFE SCIENCES</b>  <b>Research Interests</b>            ▶ Research Gate            ▶ Google Scholar</p> <p>Publications  <b>15</b></p> 	 <p><b>ALVIN NG LAI OON, PROFESSOR</b>  <b>ASSOCIATE DEAN (INTERNATIONAL)</b>  <b>Research Interests</b>            ▶ Mindfulness-based cognitive therapy and stress-reduction            ▶ Mental health literacy            ▶ Psychometric development for cross-cultural psychopathology            ▶ Psychosocial mediators of health and well-being            ▶ Behaviour fluency</p> <p>Publications  <b>14</b></p> 

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