

Institute of Medical Molecular Biotechnology Newsletter



UNIVERSITI
TEKNOLOGI
MARA

Fakulti
Perubatan

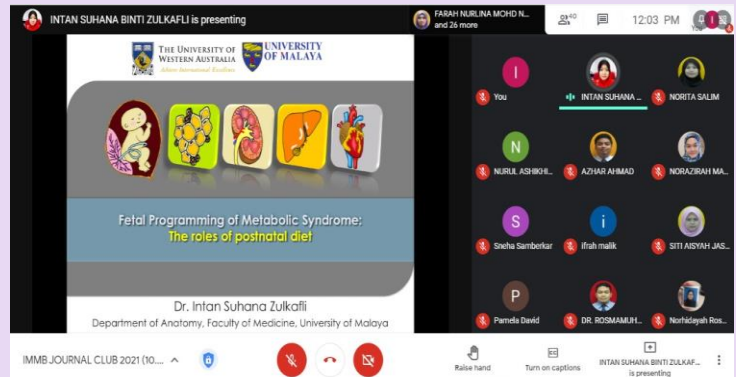


Issue 5 | March 2021 | <https://immb.uitm.edu.my/>

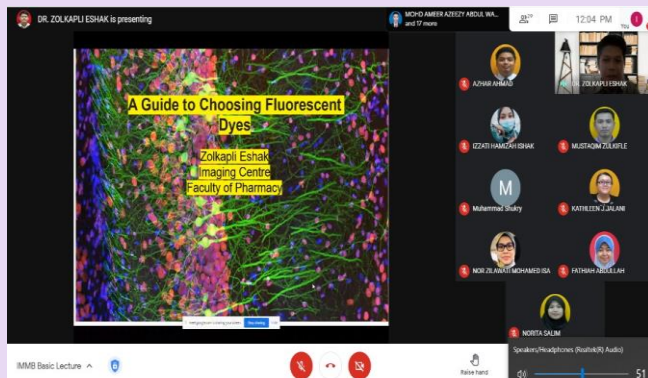


Prof Dr Ng Kwan Hoong who is the winner of **2020 MERDEKA AWARD** had presented his inspiring talk titled “Creativity in Biomedical Research”. This sharing session was held in our **IMMB RESEARCH TALK** on 3 February 2021. In addition to serving the International Atomic Energy Agency as an expert and consultant, he was also the founder and president emeritus of the South East Asian Federation of Organizations of Medical Physicists (SEAFOMP) and Asia-Oceania Federation of Organizations of Medical Physicists (AFOMP). As a multi-disciplinary professional, he shared his vast experiences and contributions to encourage more researchers to become more creative and actively involved in multi-disciplinary research.

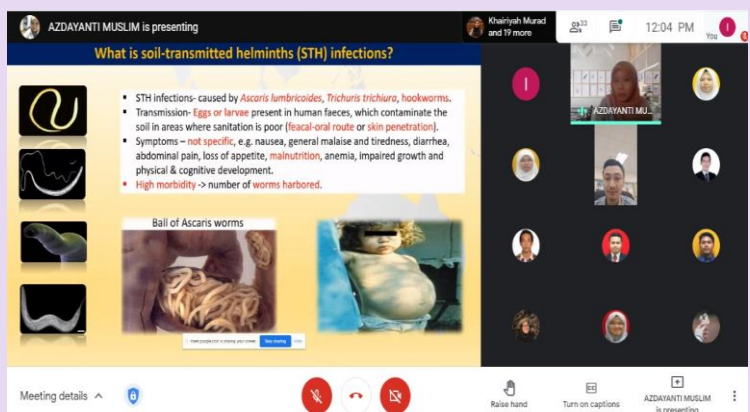
IMMB JOURNAL CLUB with an invited external speaker was conducted on 10 February 2021. We were lucky to have **Dr. Intan Suhana Zulkafli** from Department of Anatomy, Faculty of Medicine, Universiti Malaya as the speaker. In this slot, she shared her research findings on “Fetal Programming of Metabolic Syndrome: The roles of postnatal diet”. As one of the leading researcher in this field, she is passionate about enhancing knowledge and understanding through research and academic platforms. She also shared her plans to venture into clinical phase of fetal programming research and to develop an advance disease prevention protocol for metabolic syndrome.



Dr. Zolkapli Eshak who is the Coordinator of iIMAGE Unit, Faculty of Pharmacy, UiTM Kampus Puncak Alam was invited as a speaker for the **IMMB BASIC LECTURE SERIES** which was held on 24 February 2021. He has 17 years of experience handling various imaging systems. His recent research activities include hypertensive and hypercholesterolemia adjuvant therapy using seaweed and honey. During the talk, he shared his experience, concepts and basic knowledge on fluorescent imaging. He also guide us on how to choose the right fluorescent dyes and how to prepare samples to overcome common problem in fluorescent imaging procedures.



Dr. Azdayanti Muslim from the Medical Microbiology & Parasitology Department has shared her PhD research findings on “Intestinal Helminthiasis, Malnutrition, Effect of Anthelmintic Treatment and Gut Microbiota Between Negritos from the Inland Jungle and Resettlement at Town Peripheries.”. Her PhD thesis was awarded Distinction by University of Malaya. Her goal is to improve the quality of health among Orang Asli in Peninsular Malaysia by using multidisciplinary approaches. This sharing session was held in our weekly **IMMB JOURNAL CLUB** on 17 February 2021.



ACTIVITIES, INITIATIVES & INVOLVEMENT

IMMB LABORATORY SERVICES & FACILITY CHARGES 2021/2022 BROCHURE. IMMB's commitment to provide the best and high quality training programs, research and diagnostic services to all researchers in Malaysia has never stopped and is constantly enhanced through various trainings and strategic discussions. As one of the new initiatives to highlight IMMB services more widely and effectively, a brochure was produced and distributed by the IMMB administration team led by Mrs. Norita Salim. This brochure contains various information including types of services, support facilities, staff in charge and service fees. If you are interested, please scan the QR code. If you have any enquiries, please contact Mrs. Norita Salim: norita753@uitm.edu.my

Core Facilities

- Cell Culture Laboratory
- Imaging Laboratory
- Molecular and Proteomic Laboratory
- Microbiology and Parasitology Laboratory
- Seminar Rooms

Molecular and Proteomic Laboratory

The molecular and proteomic laboratory is well equipped with apparatus necessary to perform current molecular biology procedures from DNA and RNA extraction and quantification. Polymerase Chain Reaction (PCR), Real Time - PCR, gel imaging and proteomics analysis such as separation, identification, characterization and quantification of proteins expressed in biological samples.

List of equipment:

- PCR machine (Biometra, ABI, Appendorf Mastercycler, Appendorf Pro 3, MJ), two RT-PCR machine (Biorad)
- Gel electrophoresis set
- Gel imager (Biorad)
- SpectraMax QuickDrop Micro-Volume spectrophotometer
- 2D Gel & Western blotting
- Microplate reader

Microbiology and Parasitology Laboratory

The microbiology & parasitology laboratory is well equipped with basic apparatus necessary for research in medically important microorganisms.

List of equipment:

a. Biosafety cabinets	e. centrifuge
b. CO ₂ incubators	f. Shaker
c. Stereo microscopes	g. Colony counter
d. Oven	h. Freeze dryer

Cell Culture Laboratory

The cell culture laboratory has capacity for routine cell culture and maintenance for both human and animal cell cultures. It is equipped with all modern instruments and facilities for in vitro cells culturing and embryo culture In Vitro Fertilization (IVF).

List of equipment:

- Biosafety cabinets
- CO₂ incubators
- Inverted microscopes
- Centrifuges
- Waterbath
- Ultracool freezer -80°C
- Cryo freezer -180°C

Imaging Laboratory

IMMB have one of the state of the art imaging facilities in Malaysia

This include:

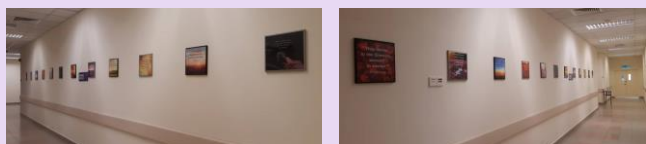
- Confocal Laser Scanning Microscope
- Ultramicrotome
- Fluorescence microscopes



Equipment Usage Form and charges



A MAP OF THE WORLD & MOTIVATION QUOTES had been placed around the strategic path of the laboratory as one of the initiatives to motivate IMMB users. Maintaining high motivation while working is expected to increase productivity where motivated researchers handle uncertainty more effectively; are better problem-solvers; have higher levels of innovation and creativity. With all these qualities, we believe that the achievements and engagements among researchers will be enhanced and internationalized.



IMMB GO GREEN. Extensive utilization of electronic equipment in a wide range of applications has resulted in the generation of high volume of electronic waste (e-waste) globally. Each year consumers dispose billions of batteries, empty ink and toner cartridges and most of them end up in landfills. Some batteries contain toxic metals such as cadmium and mercury. Printer cartridges and their ink are made up of several ingredients such as chemical dyes and heavy metals which become hazardous waste and pose threats to health and the environment if improperly disposed. Based on this awareness, we have taken small steps by providing some e-waste bins for IMMB users. This small-scale of e-waste collection & recycling awareness aims to reduce the number of e-waste disposal as solid waste which in turn will endanger the environment and its entire ecosystem.



INISIATIF BAHARU !!

LOKASI TONG SISA ELEKTRONIK KHUSUS UNTUK BATERI DAN KATRIJ TERPAKAI UNTUK KEMUDAHAN WARGA IMMB.



PEJABAT IMMB ARAS BAWAH



LOBI IMMB



RUANG MENUNGGU LIF ARAS 1

URUSKAN PENGHASILKAN SAMPAH ANDA DENGAN LEBIH BAIK!

- 1) Amalkan kitar semula.
- 2) Dahulukan pembelian bahan yang boleh dikitar semula.
- 3) Kurangkan penggunaan bahan yang tidak boleh dikitar semula.
- 4) Baik dan guna semula barang jika boleh.
- 5) Jual barang yang tidak digunakan.
- 6) Beri kepada pihak yang memerlukan (Barang keperluan yang masih dalam keadaan baik)

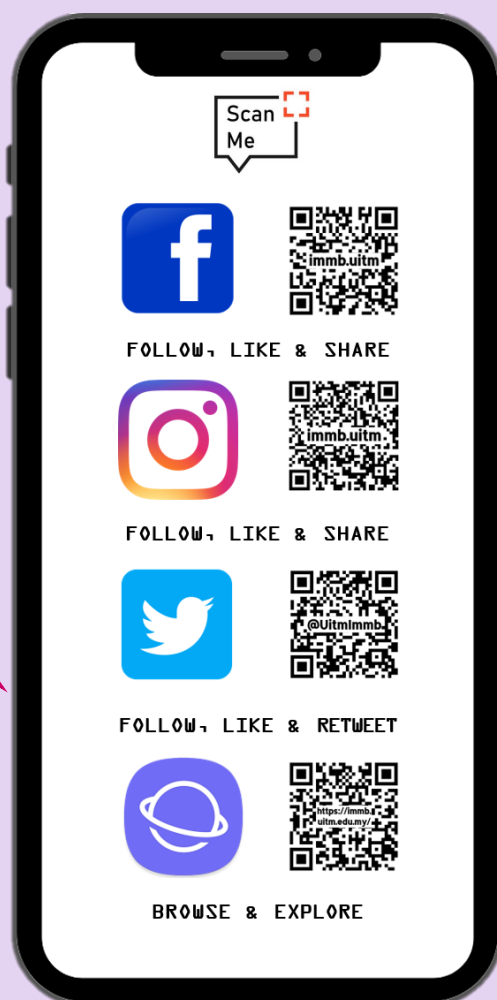
“Set your eyes on your aspirations and be courageous even if the path is turbulent. Adapt to changes but always be a person of integrity.” – Ng Kwan Hoong

Follow & support us!

Get information on our upcoming:

Monthly International Webinar | Weekly Journal Club | New Online Course | SOP & Initiatives | Services | Newsletter | Workshop and everything else that you need to know about IMMB on our media social platforms.

**IMMB
INTERNATIONAL
WEBINAR Series 02**
with
Dr Madhuri Salker,
Tübingen University,
Germany.
23 March 2021,
4.00 pm.



**FUN
INTERNATIONAL
WEBINAR Series
05** with
Dr Andrzej
Grzywacz,
Nicolaus
Copernicus
University, Poland.
24 March 2021,
4.00 pm.

Correspondence:
INSTITUT BIOTEKNOLOGI PERUBATAN MOLEKUL
FAKULTI PERUBATAN
UiTM KAMPUS SUNGAI BULOH
JALAN HOSPITAL, 47000 SUNGAI BULOH, SELANGOR, MALAYSIA
Email: immb@uitm.edu.my