

Institute of Medical Molecular Biotechnology Newsletter



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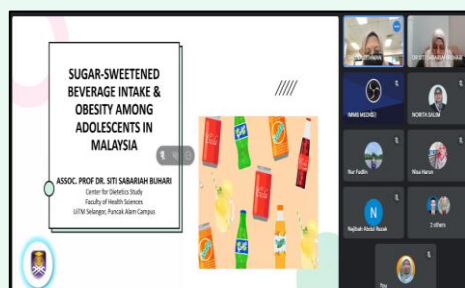
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IMMB 2022 STATS		INTERNATIONAL WEBINAR 8		SIGNED MoU & MoA 3	RESEARCH TECHNICAL & SAFETY TALK 6	COMMUNITY PROGRAM: JUNIOR SCIENTIST DAY 1	6 WORKSHOP & DEMONSTRATION	JOURNAL CLUB 11
2 TOWNHALL WITH STUDENT & SUPERVISOR	INTERNAL & EXTERNAL ADVISORY MEETING 2	1 INTERNATIONAL VISITING SCIENTIST	5 ONE-TO-ONE TRAINING	1 SYMPOSIUM	4 RAMADAN TALK	1 SEMINAR TRANSFORMASI DAN KECERLANGAN DIRI	17 RESEARCH TALK AND BASIC LECTURE	11 STAFF MEETING
						BENCHMARKING & VISIT TO IMMB 7		

In 2022, various activities related to research, knowledge sharing, and internationalization had been carried out. Among the activities, a total of eleven sessions of research outcome sharing were organized through **IMMB JOURNAL CLUB** with post-graduate students and industry trainees as speakers. Six sessions of expertise sharing through **IMMB BASIC LECTURE** by lecturers, including non-UiTM. Eleven high-impact research-sharing sessions through **IMMB RESEARCH TALK** by lecturers, including non-UiTM speaker. A **DENGUE SYMPOSIUM** was also successfully held and received a warm welcome from researchers and clinicians from the whole country. As one of the efforts for IMMB's visibility, knowledge sharing involving international researchers had also been organized. Apart from the very successful **IMMB VISITING SCIENTIST PROGRAM**, which was organized in September 2022, three of **MoU & MoA** was signed and eight sharing sessions through **IMMB INTERNATIONAL WEBINAR** by experts from countries such as America, Australia and India were also organized. IMMB has also organized activities to improve students' skills through three series of **IMMB TECHNICAL TALK** and six **LABORATORY WORKSHOP AND DEMONSTRATION** by industry experts and leading scientists and three **SAFETY TALKS** for laboratory waste, chemicals and Biosafety Cabinets. Five series of **ONE-TO-ONE LABORATORY HANDS-ON TRAINING** were also organized and attended by external participants. IMMB had also organized four **RAMADHAN TALKS** and a **SEMINAR TRANSFORMASI DAN KECERLANGAN DIRI** to maintain the motivation of students and staff in IMMB. We have also received various visitors, including the visit from the **SPANISH AMBASSADOR**, His Excellency Mr. José Luis Pardo Cuervo on 15 Nov 2022. In addition, **IMMB JUNIOR SCIENTIST DAY-CSI**, which is the main community program at IMMB had been successfully organized physically on 13 & 14 Dec 2022 after only being virtually organized in the previous year due to the pandemic. This year, 2023, various activities have been planned for students and researchers in IMMB. Stay Tuned!

IMMB INTERNATIONAL WEBINAR SERIES 08/2022 was conducted on 9 December 2022. The invited speaker was **Prof. Dr. Partha Roy** from the **Department of Pharmaceutical Technology, Adamas University, India**. He shared with the audience his research interests and current research entitled "**Tuning Gold Nanoparticles for Disease-Specific Conditions: Insight on Design and Efficacy.**" The significance of this study is that gold nanoparticles are stable against oxidation and degradation *in-vivo*, and it plays a considerable role in-advancing the clinical usage of these nanomaterials as therapeutics. The antioxidant properties of these nanoparticles made them an interesting option for decreasing reactive oxygen species generated in tissues due to oxidative stress during infections. This talk was moderated by AP. Dr. Heo Chong Chin and was successfully attended by 28 participants.



IMMB RESEARCH TALK 2022 was conducted on 7 December 2022. The invited speaker was **Dr. Siti Sabariah Buhari** from the **Centre for Nutrition and Dietetics, Faculty of Health Sciences, UiTM**. In this session, she shared her expertise on the topic entitled "**Sugar-Sweetened Beverage Intake and Obesity Among Adolescents in Malaysia**". Sugar is the leading cause of main health issues, including dental caries, weight gain, hyperactivity and other behavioral problems in children. In conclusion, the WHO guidelines recommend that the average adult's sugar intake should not exceed 10% of the total energy intake per day for. This talk was chaired by Mrs. Salina Othman and was attended by 32 participants.

ACTIVITIES, INITIATIVES & INVOLVEMENT



JUNIOR SCIENTIST DAY – CRIME SCENE INVESTIGATION (CSI). On 13th and 14th December 2022, in collaboration with **The Royal Malaysia Police, The Fire and Rescue Department of Malaysia, Sungai Buloh Hospital, Al-Sultan Abdullah Hospital** and the **Faculty of Dentistry UiTM**, the Junior Scientist Day – Crime Scene Investigation (CSI) program was successfully conducted by staff and students from the Faculty of Medicine. In this program, participants were guided to solve a given forensic case by applying the knowledge that had been taught through the sections provided, namely Crime Scene Investigation Station, Fingerprint Analysis, Forensic Entomology, Forensic Pathology–Autopsy, Forensic Odontology, Haematology, DNA Analysis & Malaysian Fire & Rescue Forensic Department. This program was led by **Dr. Mohd Danial Bin Mohd Efendy Goon** as the chairperson and gathered a total of 107 participants, including 20 *Asnaf* students.

Assoc. Prof. Dr. Noor Hashida Hashim from the **Institute of Biological Sciences, University of Malaya**, was an invited speaker for another **IMMB RESEARCH TALK 2022**, which was held on 21 December 2022. She shared her research interest entitled "**Coconut Water and Goat Reproductive Performance**". This study was proposed to increase the farm productivity of goats by using coconut water as a food supplement due to its healthy and high natural nutrient contents, as widely reported. These nutrients play a vital role in promoting antioxidant activation and improving the reproductive system. Therefore, the number and meat products will be increased, which could reduce the dependence on imported sources of meat. This session was attended by 27 participants and was chaired by En Azhar Ahmad.

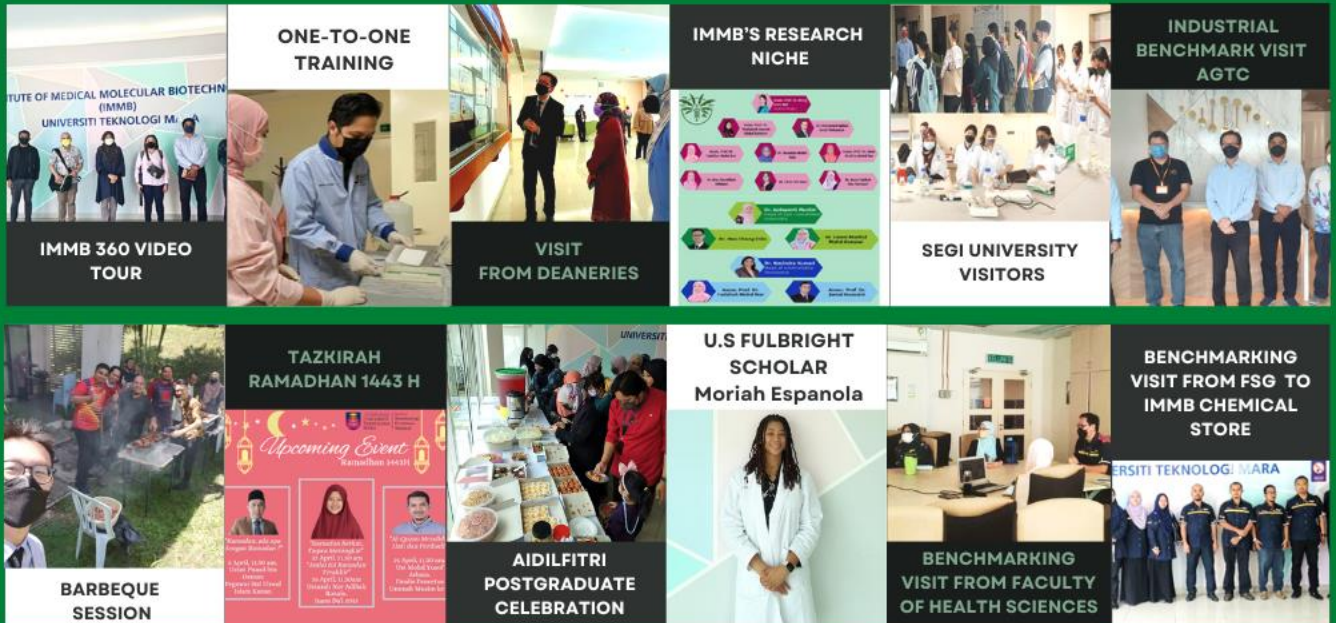
IMMB JOURNAL CLUB 2022, with **Ms. Emily Sion** (PhD Student) as the presenter, was held on 28 December 2022. She is under the supervision of Assoc. Prof. Dr. Mudiana Muhamad. She shared her research findings entitled "**Mechanism of Human Norovirus Infection in a Novel M Cells 3D Culture System via Toll-Like Receptor Pathway with Presence of Enteric Bacteria**". The main objective of the study is to investigate the human norovirus (HuNoV) mechanism of infection in the presence of enteric bacteria. This study uses a novel 3D culture model to identify the cell surface receptor targeted by HuNoV for host cell entry, towards a comprehensive understanding of HuNoV infection. This sharing was successfully attended by around 32 participants and chaired by Mr. Bakhtiar Zamili Szali.



BEST ORAL PRESENTER AT POLAR RESEARCH SYMPOSIUM. Congratulations to the director of IMMB, **Assoc. Prof. Dr. Heo Chong Chin** for successfully presenting an oral presentation at the Polar Research Symposium & AFoPS AGM 2022 on 18-20 October 2022 at Le Meridien Hotel, Kuala Lumpur. This symposium was organized in conjunction with Sultan Mizan Antarctic Research Foundation's (YPASM) 10th Anniversary. The objective of this symposium was to highlight the latest findings and achievements, share success stories, promote new opportunities for scientific cooperation in Polar Research and encourage collaboration among scientists at regional level.

"Where there is a will, there is a way." - Thomas Edison

2022 RECAP | BEST MOMENTS FROM ANOTHER MEMORABLE YEAR



THANK YOU FOR BEING AN IMPORTANT PART OF IMMB STORY



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