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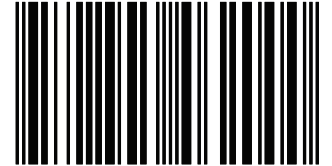
**A new
column
inside!**

Featuring
Assoc. Prof. Dr.
Norhafiza Razali



**Through the
Medical Lens**

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STRENGTHENING INTERNATIONAL COLLABORATION THROUGH PRE-CLINICAL ELECTIVE RESEARCH

Dr. Wan Nor I'zzah Wan Mohamad Zain, Assoc. Prof. Dr. Amirah Abdul Rahman, Assoc. Prof. Dr. Mohammad Johari Ibahim, Nur Syafina Hisham, Nurul Fathiah Hairul Anuar, Asma Ali Ibrahim Mze & Ros Akmal Mohd Idris

The Faculty of Medicine, Universiti Teknologi MARA (UiTM), through the Institute of Medical Molecular Biotechnology (IMMB), hosted medical students from Universitas Abdurrab,

UiTM academic staff, postgraduate students and visiting medical students from Universitas Abdurrab during the pre-clinical elective research attachment at IMMB.

Pekanbaru, Riau, Indonesia, for an elective research attachment under the ongoing Memorandum of Understanding (MoU) between UiTM and Universitas Abdurrab. The programme aimed to strengthen academic collaboration while providing meaningful research exposure to medical students.

The elective attachment was conducted from 8-13 January 2026, during which four medical students from Universitas Abdurrab completed their elective projects at IMMB, Faculty of Medicine, UiTM. The students were exposed to laboratory-based research in molecular biology, cancer research, intestinal barrier studies and microbiology, under the supervision of academic staff from the Department of Biochemistry and Molecular Medicine.

Selly Angraini carried out a project

on “*Ekspresi gen dalam sel kanker payudara primer manusia*” under the supervision of Assoc. Prof. Dr. Mohammad Johari Ibahim. The project provided exposure to basic gene expression analysis and cancer-related laboratory techniques. Ardhezy Fajar Ramadhan worked on a project titled “*Penentuan Konsentrasi Ekstrak Cengkeh (Syzygium aromaticum) yang Mempertahankan Fungsi Barrier Usus pada Caco-2 Intestinal Monolayer*” under the supervision of Dr. Wan Nor I’zzah Wan Mohamad Zain, focusing on the effect of clove extract on intestinal barrier function using a Caco-2 cell monolayer model. Bilqis Aurelia Salsabila conducted a study on “*Efek antikanker Ekstrak Cengkeh (Syzygium aromaticum) terhadap viabilitas dan migrasi sel kanker kolorektal (Caco-2)*” under the supervision of Assoc. Prof. Dr. Amirah Abdul Rahman. This project introduced the student to basic cancer cell assays, including cell viability and migration analysis. Muhammad Rizky Septyan undertook a project titled “*Penilaian Konsentrasi*



COLLABORATIVE laboratory work involving visiting student, postgraduate student and UiTM academic staff.



NUR SYAFINA (UiTM postgraduate student) assisting Universitas Abdurrab medical student during laboratory activities in the Microbiology lab.

Ekstrak Cengkeh yang Mempertahankan Viabilitas Bifidobacterium

bifidum secara in vitro” under the supervision of Dr. Wan Nor I’zzah Wan Mohamad Zain, which evaluated the effect of clove extract on the viability of beneficial gut bacteria.

Throughout the attachment, the students were introduced to laboratory safety procedures, experimental planning, cell culture techniques and simple data analysis. They also had opportunities to discuss their work with supervisors and laboratory members, enhancing their understanding of the role of laboratory research in

medical and biomedical sciences.

The elective projects were also assisted by four postgraduate students, namely Nur Syafina Hisham, Nurul Fathiah Anuar, Asma Ali Ibrahim Mze and Ros Akmal Mohd Idris. Their involvement provided guidance during laboratory sessions and daily experimental activities, promoting peer-assisted learning, teamwork and knowledge sharing between undergraduate and postgraduate students.

This elective attachment was coordinated under the UiTM-Universitas

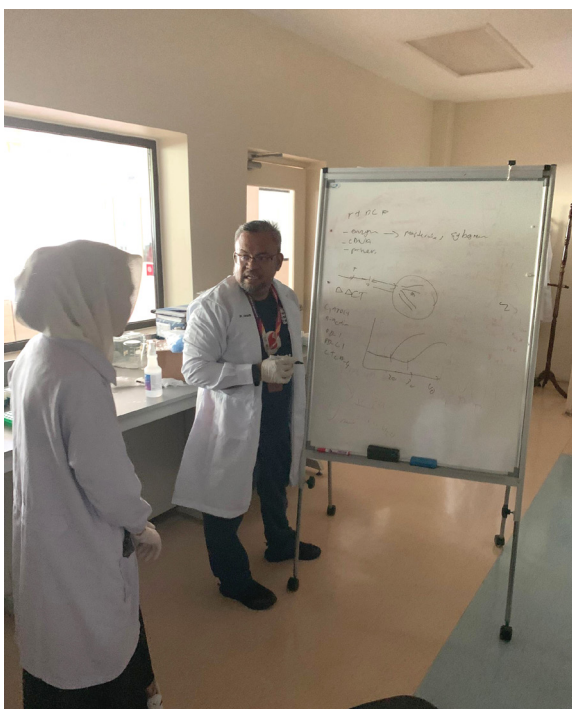
Abdurrab MoU, with Dr. Wan Nor Izzah Wan Mohamad Zain serving as the Person-in-Charge. The successful completion of the programme reflected UiTM's commitment to international collaboration, research exposure and student development. Overall, the elective attachment was a meaningful experience for both the visiting students and the UiTM academic community, strengthening collaborative ties and opening opportunities for future student exchanges and joint research initiatives.



ROS AKMAL (UiTM postgraduate student) assisting Universitas Abdurrab medical student during laboratory activities in DNA lab.



HANDS-ON cell culture training conducted under close academic supervision at IMMB.



RESEARCH discussion session led by Assoc. Prof. Dr. Johari to support students' understanding of experimental concepts.



A Universitas Abdurrab medical student conducting laboratory work under the supervision of Dr. Wan Nor Izzah.