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HISTOLOGY WORKSHOP 2026 EMPOWERS POSTGRADUATE AND RESEARCHERS WITH HANDS-ON LABORATORY SKILLS

The Department of Anatomy, Faculty of Medicine, UiTM hosted the Histology Workshop 2026: "Ace Your Histology Skill – A Hands-On Workshop for Postgraduate Training" on 21st May 2026. Held annually, the workshop welcomed 11 participants, including MSc and PhD students from the Faculty of Medicine, researchers from the Malaysian Palm Oil Board (MPOB Bangi) and Faculty of Health Sciences (UiTM Puncak Alam), as well as academic staff.

The workshop was designed to strengthen participants' technical competencies in tissue processing, sectioning and routine staining techniques which is haematoxylin and eosin staining, which are fundamental to producing high-quality histological slides and ensuring



PARTICIPANTS engaged in a hands-on learning session under the guidance of experienced facilitators, gaining practical skills in tissue sectioning and histological slide preparation—essential techniques for producing high-quality research specimens.



reliable biomedical research outcomes. Throughout the programme, participants were exposed to both theoretical concepts and practical laboratory applications under the guidance of experienced academic staff, laboratory personnel and industry partners.

The morning session featured a series of informative lectures by Dr. Nurul Raudzah Adib Ridzuan, who covered the fundamentals of histology techniques and workflow, as well as laboratory standard operating procedures, while Assoc. Prof. Dr. Choy Ker Woon highlighted the emerging applications such as immunohistochemistry, immunocytochemistry (IHC) and immunofluorescence (IF) techniques and their step-by-step procedures. Participants were also introduced to advanced histology technologies, including automated staining systems and special staining techniques through demonstrations conducted by Ms Nur Atiqah Roshidi, an industry expert at Bita LifeScience Sdn. Bhd.

A major highlight of the workshop was the afternoon hands-on session held at the Histology Laboratory in the Department of Anatomy. Participants were given the opportunity to gain first-hand experience in tissue processing, embedding, microtome sectioning, slide preparation and staining procedures. The practical exposure enabled participants to appreciate the critical steps involved in producing high-quality histological specimens while learning



A group photograph of participants, facilitators, and speakers after successfully completing a comprehensive programme that combined expert-led lectures with hands-on training, reinforcing essential histological skills for postgraduate research and professional development.

valuable troubleshooting skills commonly encountered in laboratory practice.

Evaluation results showed that more than 90% of respondents rated the workshop content highly and agreed that the hands-on sessions helped improve their histology skills. Participants also reported enhanced understanding of histological techniques and greater confidence in preparing and interpreting histological slides. Among the most valuable learning experiences highlighted by participants were microtome handling, tissue sectioning, slide mounting, staining interpretation and practical tips on immunohistochemistry applications. Several participants expressed interest in future workshops featuring advanced topics specific to IHC, IF, grossing techniques, as well as quantitative and qualitative assessment of histological slides.

The Department of Anatomy extends its sincere appreciation to all speakers, facilitators, laboratory staff, industry collaborators and participants who contributed to the success of the programme. The encouraging feedback received reflects the growing need for specialised hands-on training in histology and reinforces the department's commitment to supporting excellence in postgraduate education and research.

Building on this success, the department looks forward to organising similar workshops in the future to further enhance laboratory competencies, promote knowledge sharing and strengthen research capabilities within the Faculty of Medicine and beyond.