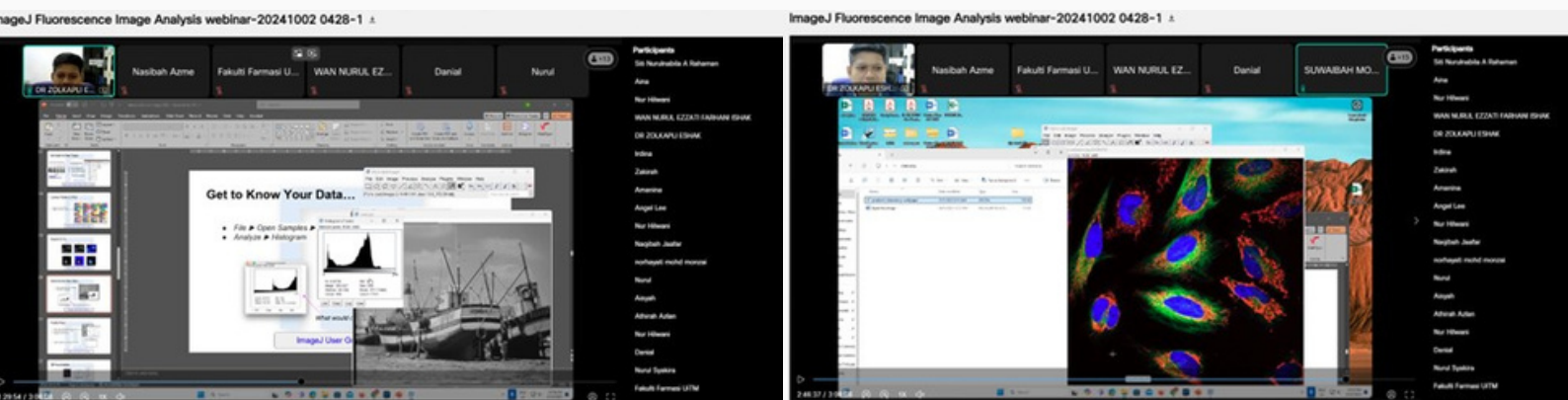


# ImageJ for Fluorescence Image Analysis

By: Dr. Zolkaple Eshak



On October 2, 2024, the Imaging Center at the Faculty of Pharmacy, Universiti Teknologi MARA (UiTM) Puncak Alam, conducted a four-hour workshop titled "ImageJ for Fluorescence Image Analysis". This online training session was attended by 20 participants from UiTM, Universiti Malaysia Sarawak, the Malaysian Palm Oil Board, Universiti Putra Malaysia, and Universiti Sains Islam Malaysia.

The primary goal of the workshop was to train researchers and students through practical skills in ImageJ, an open-source software for analysing scientific images. The session started with a lecture by Dr. Zolkapli Eshak, the Coordinator of the Imaging Center, Faculty of Pharmacy UiTM Puncak Alam, who introduced the basics and main features of ImageJ.

After the opening lecture, participants engage in a hands-on practical session that covers essential functions of ImageJ. This session included image enhancement, adding scale bars, particle and area measurements, cell counting, and stitching images for higher clarity and detail. Additionally, participants learned advanced techniques such as measuring fluorescence intensity, calculating and measuring particle size. Participants were also trained on how to add plugins to ImageJ. This allows them to customise the software to perform repetitive tasks and complex analyses to suits their research needs.

During the workshop, participants had the opportunity to ask questions and seek clarification. This allows participants to gain a better understanding of the software's applications. Many participants expressed how useful and relevant the workshop was to their ongoing research projects, with some suggesting follow-up workshops specific to the application of ImageJ.

The dedicated committee members, including Dr. Zolkapli Eshak, Mrs. Norhayati Mohd Monzai, Miss Wan Nurul Ezzati Farhani Ishak, and Miss Norazua Ahmad, made the workshop possible.