



# Research *NEWS*

Department of Research & Innovation, UTM

**RN 2/2026**



## Advanced Single Crystal X-Ray Diffraction Workshop: From Fundamentals to Complex Structural Challenges

14-15 April 2026

Atta-ur-Rahman Institute for Natural Product Discovery (AuRIns)

The Atta-ur-Rahman Institute for Natural Product Discovery (AuRIns), Universiti Teknologi MARA (UiTM) Selangor Branch, Puncak Alam Campus, in strategic collaboration with industry partners Bruker AXS and Inno Lab Engineering Sdn. Bhd., successfully organized the Advanced Single Crystal X-Ray Diffraction Workshop: From Fundamentals to Complex Structural Challenges on 14–15 April 2026 at Level 9, FF3 Building, AuRIns as part of efforts to strengthen expertise in crystallography and advanced structural analysis.

The workshop aimed to enhance participants' theoretical understanding and practical skills in Single Crystal X-Ray Diffraction (SC-XRD), covering fundamental crystallography, symmetry, and crystal systems through to complex structure analysis and data problem-solving techniques, while also exposing participants to advanced analytical software for high-quality data generation suitable for scientific publication. The program featured keynote speaker Dr. Prathapa S. Jagannatha, Product Manager SC-XRD at Bruker AXS, who shared his expertise in crystal handling, structural modelling, and advanced analytical techniques using APEX software, alongside other distinguished speakers including Assoc. Prof. ChM. Dr. Amalina Mohd Tajuddin (AuRIns, UiTM), Dr. Nazziyah Ahmad Rodzi (Malaysia Genome and Vaccine Institute, MGVI), Dr. Tan Yee Seng (Sunway University), Prof. Dato' ChM. Dr. Mohammad Kassim (Universiti Kebangsaan Malaysia), and Assoc. Prof. Dr. Suhana Arshad (Universiti Sains Malaysia).

Throughout the workshop, participants actively engaged in interactive learning sessions, technical discussions, and hands-on training involving real data analysis and problem-solving in crystallography research. This initiative is expected to further strengthen academia–industry collaboration while enhancing research capabilities in crystallography and science-based product development, in line with the university's aspiration for research excellence.





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