

Macromolecular X-ray Crystallography Facility

Location: TBRC, second floor

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[Learn more about the Macromolecular X-ray Crystallography Facility](#)

Overview

The Department of Biochemistry houses state-of-the-art instrumentation dedicated to Structural Biology research. The facility includes chromatographic systems for protein purification, an in-house X-ray diffraction core and an automated crystallization system for high-throughput screening and optimization. High-end computer workstations have been set up for 3-D graphic visualization and crystallographic analysis.

The X-ray facility is located on the second floor of the Translational Biomedical Research Center (TBRC). The facility houses an X-ray diffraction system consisting of a Rigaku R-Axis IV++ image plate detector system and MicroMax 007 generator equipped with Varimax High Flux ArcSec mirrors and an Oxford 800 Cryostream unit. Users have available a Hamilton Star liquid handling robot as well as a Phoenix liquid handling system for setting up nano drop crystallography plates.

The facility is open to faculty members of the Medical College of Wisconsin. Various levels of training are available and collaborative arrangements can be made to scientists both inside and outside of the MCW community.

Equipment/Software	Accessibility
Rigaku R-Axis IV++ image plate detector system and MicroMax 007 generator equipped with Osmic confocal mirrors and an X-treme crystal cryocooler	Use is available only after training
Hamilton Automated Crystallization System	Use is available only after training

Phoenix Automated Crystallization System	Use is available only after training
Graphics workstation	Use is available only after training

Hours: please contact us

Common users of the facility: Labs of Kim, Fu, Volkman, Hill, Scaglione

Rate: please contact us