

Biochemistry Laboratory for Synchrotron Experiment Sample Preparation

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Abstract No. chan6455

Beamline(s): **X28C**

The Biochemistry labs have been a critical part of the Resource and invaluable to the users to make and characterize samples both before and after data collection. Laboratory 1-161 contains all the standard equipment users find in their home laboratories such as: pH meter, balance, distilled water, ice maker, optical spectrometer, centrifuge, heating/cooling bath, microwave, glassware, microscope, and fume hood, as well as more specialized equipment such as an anaerobic glove box and ultracentrifuge. There are also two cold rooms adjacent to both laboratories. Laboratory 1-161 is a new general user laboratory that is primarily used by crystallography and EXAFS users. The users primarily use the Lab for sample preparation and mounting to holders prior to using the x-ray beam. Computer workstations are also available. In addition to the Lab 1-161, a new general user laboratory 1-125 has been placed recently under our supervision. It is dedicated to the users using the infrared Beamline U2B and x-ray footprinting beamline X28C. It has most of the necessary equipment users find in their home laboratories, as well as some specialized equipment, like a Carver press for making KBr pellets and a crystal polishing station for polishing infrared optical materials. A computer workstation is also available.