The State of the Canadian Macromolecular Crystallography Facility

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The Canadian Macromolecular Crystallography Facility (CMCF) at the Canadian Light Source consists of two macromolecular crystallography beamlines for structure determination using x-ray diffraction. The equipment at the CMCF beamlines have undergone or will undergo changes and improvements to better meet the needs of the most challenging experiments users may present. Among these improvements are: 1) Automounter improvements; 2) Better goniometry on 08ID-1 with the addition of a Huber air-bearing goniometer; 3) Added beam size capabilities on 08ID-1 with the addition of a multiple beam defining aperture holder; 4) XAFS capability on 08B1-1; 5) Improved low energy S-SAD data collection with the addition of a Helium path; 6) Improvements to the data collection and data management software; 7) A vacuum path for scattering experiments with detector distances up to 1 m; 8) A comprehensive beamline upgrade project on the 08ID-1 beamline; and 9) Service crystallography services.

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