

Comprehensive Support for Serial Crystallography at the European XFEL

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Serial crystallography has opened new possibilities for determining the structures of biological macromolecules using microcrystals. At the European XFEL, the Sample Environment and Characterization (SEC) group, operating the XBI biology laboratory, provides essential support for users at every stage of the serial crystallography workflow, from initial sample preparation to advanced characterization and sample delivery.

The XBI laboratory offers state-of-the-art facilities where users can prepare and characterize their samples before experiments. Through hands-on support and guidance, we help users optimizing their samples to make efficient use of valuable beamtime. The SEC group provides sample delivery methods and supports users in optimizing their own systems.

By combining expertise in sample delivery and advanced characterization, the SEC group at European XFEL supports the structural biology community to achieve innovative results in serial crystallography. Our ongoing developments in standard samples, support infrastructure, and efficient sample delivery methods continue to lower access barriers, foster collaboration, and broaden the access to serial crystallography.

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