

## **Protein micro-crystallography at the Swiss Light Source**

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The undulator beamline X06SA at the Swiss Light Source was designed for the study of weakly diffracting, large unit cell crystals as well as biological micro-crystals. In order to fulfill both requirements beamline is equipped with a dynamically focussing optical system, allowing the beam to be focussed either on the dedicated micro-diffractometer MD2 or on the sample, beamstop or detector position of the high resolution diffractometer.

The presentation will cover the beamline instrumentation as well as recent highlights of micro-crystallography. The X-ray analysis of *in vivo* grown CPV polyhedra that allowed its structure to be determined at 2 Å resolution from 5 - 12 microns crystals as well as the structure determination of insulin from Ultralente microcrystals will be described in some detail. Challenges in protein micro-crystallography will be discussed.