

# Illuminating Biomolecular Complexity: X-ray Free Electron Lasers and Vibrational Spectroscopies for Protein, Aggregates, and Cellular Architectures



Contribution ID: 19

Type: **Contributed Talk (≈20 minutes)**

## Sample delivery for time-resolved studies at the European XFEL

The European XFEL (EuXFEL) enables high resolution and time-resolved structural studies of biological systems. Diffraction, scattering and spectroscopy experiments with a MHz pulse repetition rate, in combination with optical pump-probe or mixing set-ups, give new insights into protein motion and dynamics. To accommodate the MHz repetition rate, sample delivery methods are in demand which ensure quick and efficient sample renewal. The Sample Environment and Characterization (SEC) group at EuXFEL develops these methods and supports users during their experiments. In this presentation sample delivery methods will be discussed and the SEC group activities will be described.

### Scholarship eligibility

no

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