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Synchrotron radiation and size exclusion chromatography

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Solution, in a broad range of sizes and conditions. The synergistic improvement in hardware as well as software over the last decade has transformed SAXS into a high-through put technique, which became highly attractive for the pharmaceutical industry. SAXS provides direct insights in the quaternary state; however, it is often hampered by inherent sample polydispersity. At EMBL's P12 beamline (@Petra III, DESY, Hamburg, Germany), we are developing novel in-line purification systems such as the implementation of an extended size exclusion chromatography set-up for the parallel biophysical and SAXS data can be directly collected and used for structural and biophysical studies. Modes of access to this set-up (including European funded translational activities such as iNEXT and industrial service provision) are discussed.



[1] Graewert et al. 2015; Sci Rep 5/srep10734

Biography

Melissa Graewert is a Structural Biologist. Currently, she works at EMBL's Outstation in Hamburg, Germany located at PETRA III, one of the most brilliant storagering-based X-ray radiation sources in the world. Her expertise includes "Biophysical and structural characterization of proteins". Her main research focus is on "The implementation and constant development of small angle X-ray scattering as an emerging technique for the characterization of biological therapeutics such as monoclonal antibodies".

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