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Synchrotron Radiation and Structural Biology

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An overview will be given of how synchrotron radiation has revolutionized structural biology. To day the experiments are facilitated by the highly automated beamlines for diffraction and small angle scattering, and through partnerships like the PSB (Partnership for Structural Biology) in Grenoble complementary techniques are made available. These advances will be illustrated by our studies of PfEMP1 malariaproteins by diffraction and small angle scattering. The impact of experiments with free electron lasers on the future developments of structural biology at the synchrotron facilities will also be addressed.

In relation to the creation of ALS I shall report on my personal experience with creating a network of researchers in the nordic countries supported by the EU funding.

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