The small-angle X-ray scattering core facility of center for cancer research of National Cancer Institute

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Small-angle X-ray scattering (SAXS) is a powerful tool for structural biology research. It allows studying the structure and dynamics of biomacromolecules and their complexes in solution, near physiological environments. The SAXS Core Facility of Center for Cancer Research (CCR) is officially established in 2013. The SAXS core includes in-house state-of-art SAXS instrument and routine access to beamtime of the Advanced Photon Source at Argonne National Lab through the partnership user program agreement. The SAXS Core opens to all NIH intramural and extramural research communities. The mission of the SAXS Core Facility is to provide support to research projects of CCR principle investigators, NIH intramural and extramural research groups/laboratories. The support includes providing expertise in experimental design, data collection, processing, analysis and interpretation. The research field includes but not limited to structural studies of nucleic acids, proteins, protein assemblies, virus particles, lipid membranes and membrane-protein/DNA complexes. This poster gives introduction to the SAXS Core users.

SAXS Core website: https://ccr.cancer.gov/Structural-Biophysics-Laboratory/SAXS-Core-Facility

Acknowledgements

The NCI SAXS Core is funded by FNLCR contract HHSN261200800001E and the intramural research program of the NIH, NCI, CCR.