



	Experiment title: Structural and functional studies of: a) Arrestin, b) β -arrestin...	Experiment number: LS-1816 BAG
Beamline: ID14-3	Date of experiment: from: 28.10. to: 30.10.2000	Date of report: 16.02.2001
Shifts: 6	Local contact(s): Steffi Arzt	<i>Received at ESRF:</i>
Names and affiliations of applicants (* indicates experimentalists): J. Granzin*, J. Labahn*, D.Hehn*, V. Gordeliy*, G. Büldt Forschungszentrum Jülich, IBI-2, Biologische Strukturforschung, D-52428 Jülich, GERMANY		

Report:

Overall we collected 13 datasets at the beamline ID14-3, especially bacteriorhodopsin (bR) datasets. The quality of the bR datasets depend on a low twinning ratio (usable only if the twinning factor is <15%) and the ratio of the intermediate to ground state (ratio intermediate/ground must be >60% in the crystal).

The dataset of arrestin soaked with a phosphorylated peptide has a usable resolution of 3.3 Å. The reduced diffraction quality is induced by the strong reaction of the peptide with the protein.

For β -arrestin co-crystallized with inositolhexaphosphate (IP₆) we recorded a datasets of 4.0 Å resolution. The IP₆ molecule is clear visible in the electron density.

A publication about the structure of arrestin complexed with inositolhexaphosphate is submitted to the Journal of Molecular Biology.