



Experiment title: Ligand binding domain of the Estradiol receptor complexed with antagonist.	Experiment number: Is 1658	
Beamline: ID14 EH3 ID14 EH1	Date of experiment: from:25.11.1999 to: 26.11.1999 from:05.06.2000 to: 06.06.2000	Date of report: <i>Received at ESRF:</i>
Shifts: 6	Local contact(s): Steffi Arzt, Hassan Belrhali	
Names and affiliations of applicants (* indicates experimentalists): Marc Ruff * Monique Gangloff* Sylvia Eiler*		

Report:

ERS are members of the nuclear receptor superfamily that play an important role in the homoeostasis and several cancers like breast cancers. We already solved the structures of the wild type and a mutant ER LBD, which allowed us to found several important structural features responsible for the activation state of the receptor. Now we are making crystallisation of the ER LBD mutant or wild type, complexed with several agonist or antagonist. Crystals for the complex of ER LBD with a full antagonist have been obtained and data have been collected to 2.9 Å resolution. The structure has been solved and the analysis is under way.