ESRF	**Experiment title:** Toward the structure determination of survivin structure using the native protein	**Experiment number:** LS1506
Beamline: BM30	**Date of experiment:** from: 11 to: 12 october 1999	**Date of report:** 28-2-2000
Shifts: 3	**Local contact(s):** Philippe CARPENTIER	*Received at ESRF:*
Names and affiliations of applicants (* indicates experimentalists): Laurent Chantalat*		

Report:

Survivin is a newly described apoptosis inhibitor that is expressed in many human cancers and appears to play a critical role in both apoptosis regulation and cell cycle progression. The amino-acid sequence reveals a putative zinc finger motif.

Survivin crystals are very difficult to grow. They belong to a monoclinic space group (C2, a=113.45Å, b=71.12Å, c=80.77Å, β=127.43°) and are twinned. In order to solve the structure by MAD methods we searched for bound ions in the wild type protein.

The fluorescence spectra on survivin crystals around various edges (Zinc, Cobalt, Iron) revealed the presence of zinc and cobalt in the crystals but not the presence of iron.

Our approach was successful since recently we were able to perform a MAD data collection.