

Experiment Report Form

The double page inside this form is to be filled in by all users or groups of users who have had access to beam time for measurements at the ESRF.

Once completed, the report should be submitted electronically to the User Office using the **Electronic Report Submission Application:**

<http://193.49.43.2:8080/smis/servlet/UserUtils?start>

Reports supporting requests for additional beam time

Reports can now be submitted independently of new proposals – it is necessary simply to indicate the number of the report(s) supporting a new proposal on the proposal form.

The Review Committees reserve the right to reject new proposals from groups who have not reported on the use of beam time allocated previously.

Reports on experiments relating to long term projects

Proposers awarded beam time for a long term project are required to submit an interim report at the end of each year, irrespective of the number of shifts of beam time they have used.

Published papers

All users must give proper credit to ESRF staff members and proper mention to ESRF facilities which were essential for the results described in any ensuing publication. Further, they are obliged to send to the Joint ESRF/ ILL library the complete reference and the abstract of all papers appearing in print, and resulting from the use of the ESRF.

Should you wish to make more general comments on the experiment, please note them on the User Evaluation Form, and send both the Report and the Evaluation Form to the User Office.


Deadlines for submission of Experimental Reports

- 1st March for experiments carried out up until June of the previous year;
- 1st September for experiments carried out up until January of the same year.

Instructions for preparing your Report

- fill in a separate form for each project or series of measurements.
- type your report, in English.
- include the reference number of the proposal to which the report refers.
- make sure that the text, tables and figures fit into the space available.
- if your work is published or is in press, you may prefer to paste in the abstract, and add full reference details. If the abstract is in a language other than English, please include an English translation.



	Experiment title: FORFAIT FIP	Experiment number: 30-01-679
Beamline:	Date of experiment: from: 17-APR-2004 to: 19-APR-2004	Date of report: 07-JUN-2004
Shifts: 6	Local contact(s): Jean-Luc FERRER	<i>Received at ESRF:</i>
Names and affiliations of applicants (* indicates experimentalists): LE DU Marie-Helene* LE MAITRE Albane* LLINAS Paola STURA Enrico		

Report:

The study of the interaction between metal ions and proteins constitutes a growing field of interest as the incorporation of a metal in a protein can have a great influence on its structure and reactivity. We focus in our laboratory on the incorporation of heavy metal ions in human proteins and especially in human interleukin 8. Crystals of IL8 have been grown in our laboratory in condition corresponding to the crystal form of space group P222 with cell parameters $a = 46.6 \text{ \AA}$, $b = 49.7 \text{ \AA}$, $c = 70.3 \text{ \AA}$ and $\alpha = \beta = \gamma = 90^\circ$. Two data set were collected : one native data set to 1.9 \AA with a crystal of P222 space group as expected ; one data set from a co-crystal to 2.2 \AA which appears to belong to the trigonal space group $P3_221$, and did not contain the expected heavy metal. We are now trying to improve the co-crystallisation condition in our lab, and to also prepare native crystals belonging to the trigonal space group.

Kin17 is a human nuclear protein is a stress response factor which may be involved in DNA replication and DBA repair. This 393 amino acid protein exhibits a segmented domain structure constituted by one N-terminal zinc-finger domain, one predicted FF domain, and a C-terminal predicted TUDOR domain. We have obtained primitive orthorhombic crystals of the C-terminal domain which structure must be solved by MAD or MIR because of the low sequence homology with known TUDOR structure. We have co-crystals of the protein with various heavy atom salts. We have been able to collect a total of 8 data sets: two MAD data set

at W edge, one at Os edge; three SAD data set at Re, Hg, and Pt edges, and three native data set. The treatment of these data is under process.