

## 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.

	<b>Experiment title:</b> BAG-LEBS-2003-2	<b>Experiment number:</b> MX-204
<b>Beamline:</b> ID14-EH1	<b>Date of experiment:</b> from:09/11/2003 at 8h00 to:10/11/03 at 8h00	<b>Date of report:</b> 19/02/04
<b>Shifts:</b> 3	<b>Local contact(s):</b> Dr Hanna-Kirsti Schroeder Leiros	<i>Received at ESRF:</i>
<p><b>Names and affiliations of applicants (* indicates experimentalists):</b>  Nicolas Leulliot* (Orsay University; Assistant professor); Lionel Trésaugues* (IBBMC; PhD student).  Ronald MELKI*LEBS, UPR 9063, CNRS, Avenue de la Terrasse, 91198 Gif-sur-Yvette  Stéphane MOUILLERON* and Thierry BIZEBARD* , LEBS, CNRS, Gif sur Yvette</p>		

## Report:

Nicolas Leulliot and Lionel Trésaugues (1.5 shifts):

The systematic names of the genes are used. More details on every orf can be found on <http://genomics.eu.org/targets.html>

1) Set 1 RRM domain.

We have collected four dataset from crystals of Set1 RRM domain, soaked in different heavy metal salts. No metal was found to be bound but we were able to improve consequently the resolution limit.

2) YIL020c (orf69).

Space group: C2 with a= 102Å; b=71Å; c=40Å; beta=105°.

Resolution: 1.3Å.

Completeness: 100%

Rsym: 6%.

This orf encodes for His6, an enzyme responsible for the fourth step in histidine biosynthesis. We have collected a 1.3Å resolution dataset. This dataset will be very important when we will have succeeded in solving the structure of that protein, but for the moment, experimental phases are needed.

3) YPR172w (orf188).

Spacegroup P6122 a=b=60Å; c=110Å.

Resolution 2.1Å.

Completion 100%

Rsym=7%

This protein is the target number 188 of the Yeast Structural Genomics initiative. It is a 200 residues protein of unknown function with no structurally related homologue known to date. We have collected a native 2.1A dataset. We are trying to obtain crystals from SeMet labelled protein in order to get experimental phases.

Ronald Melki (0.5 shift):

X-ray fiber diffraction patterns of Ure2p fibrils assembled under different experimental conditions were also collected. These patterns reveal in some cases cross beta sheet structures. This is part of an ongoing project.

Stéphane MOUILLERON and Thierry BIZEBARD (1 shift):

Different types of crystals of glucosamine-6-P synthase in complex with 5-diazo-6-oxo-norleucine (DON) and 6-deoxy-amino-mannitol or fructose-6-Phosphate have been tested. Many of these diffract at low resolution, so we would like to test them on ID14 as soon as possible. However, we recorded a 3.5 Å twinned data set of GlnS in complex with 6-diazo-5-oxo-norleucine (DON) and 6-deoxy-amino-mannitol (Space group P1,  $a=82,28$   $b=85,77$   $c=183,28$   $\alpha=90,75$   $\beta=90,10$   $\gamma=89,70$ ). The data processing of this data set is in progress.

