

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: Structure of a novel protein from E.coli	Experiment number: MX-1104
Beamline: ID 14-4	Date of experiment: from: 19.04.2010 to: 20.04.2010.	Date of report: 26.07.2010.
Shifts: 17.00-01.00	Local contact(s): Gianluca Cioci	<i>Received at ESRF:</i>

Names and affiliations of applicants (* indicates experimentalists):

*Dunja Urosev, Universitat Autònoma de Barcelona, Barcelona, Spain

*Oscar Conchillo, Universitat Autònoma de Barcelona, Barcelona, Spain

David Reverter, Universitat Autònoma de Barcelona, Barcelona, Spain

Xavier Daura, Universitat Autònoma de Barcelona, Barcelona, Spain

Report:

Crystals of a potential antigen from a pathogenic *E.coli* strain were grown at 18°C by the hanging drop vapor diffusion method in the following conditions: 20% PEG3350, 0.1M Tris-HCl, pH 8.5, 0.2M MgCl₂. Crystals were cryoprotected in a well solution that additionally contained 20% ethylene glycol. SAD experiment has been performed, native and Se-Met derivative (peak) data were collected at 100K, at beamline ID 14-4. Crystals diffracted to a resolution of 1.7Å (2.3Å, Se-Met), belonged to P2₁ space group, with following unit cell characteristics (a, b, c; angles): 48.99 58.52 88.38; 90.00 103.9 90.00. Some important statistics includes: Completeness of 99.6 (99.7, Se-Met)%, R_{merge} of 0.106 (0.08, Se-Met) and Average I/sigma: 14.9 (13.9, Se-Met). Cycles of refinement yielded final R factor =20.2% and Rfree= 23.0%. The structure will be deposited in the protein data bank shortly.