



November 2010 - issue n°02

We are pleased to send you the second issue of our twice yearly 'ESRF MX Update' newsletter. Its aim is to keep industrial MX clients up to date with developments at the ESRF.

## NEWS FROM THE INDUSTRIAL & COMMERCIAL UNIT

### PSDI, 15-16 NOVEMBER 2010

The 18<sup>th</sup> annual PSDI meeting for Structural Biologists working in the pharmaceutical industry will take place on 15<sup>th</sup> & 16<sup>th</sup> November 2010 in Oxford, UK. We look forward to seeing you there! [More information.](#)

### WE LISTEN TO YOU!

Since June 2010 a feedback form is automatically e-mailed to the Main Proposer after each experiment. Your comments are very valuable to us, helping us to continually improve our services. Thank you for taking the time to complete these forms!

### WANT TO BE TRAINED IN HOW TO OPTIMISE YOUR USE OF OUR BEAMLINES?

[Contact us](#) to organise training at your home laboratory, at the ESRF or over the phone. This year we are also opening our user training sessions to industrial users for the first time. The course will be held on 3-4 December. Contact us if you are interested in attending - there may still be a few places available.

## HEADLINES

### PILATUS 6M ON ID29

Since July 2010

### PSDI: OXFORD, 15- 16 NOV 2010

See you there!

### HERCULES FOR INDUSTRY, 2-4 MAY 2011

A HERCULES specialised course on X-ray and neutron techniques for industry will be organised in May 2011, in Grenoble. More info soon.

## UPGRADE NEWS

You can find all the most recent [news here](#) on the construction status of the new bioSAXS beamline on BM29, the installation of the Pilatus 6M and the new penta-aperture system on ID29, the new robot under commissioning on ID14-2, and the expected impact of the Upgrade on the MX beamlines during 2011.

## NEWS FROM THE BEAMLINES

### NEWS ON THE WEB

We keep [this webpage](#) up-to-date with our most recent developments. Please take a look from time to time to be kept informed and don't hesitate to contact us if you have any questions.

### SYNCHRONISE YOUR BACKUP

Are data volumes increasing and data backups starting to be too long to perform at the end of your experiment? Why not use [Syncback](#) on the [dedicated windows PCs](#) on the MX beamlines?

### EDNA REPLACES DNA IN MXCUBE

Need to assess the quality of a crystal and predict how much data you can collect from it before it gets damaged by our intense X-rays? EDNA helps you to quickly analyse test images and suggests an optimised data collection strategy taking into account crystal size and the properties of the beamline (beam size, flux). EDNA replaces DNA and has been integrated into the MxCuBE GUI since March 2010. More details can be found [here](#).

If you need help to use EDNA, don't hesitate to [contact us](#) directly.

### AUTOMATIC DATA PROCESSING RESULTS IN ISPYB

What is the quality of the data you are measuring? Automatic data processing is there to help you. Processing of diffraction images is launched [automatically](#) with results stored in the PROCESSED\_DATA directory and following the same

hierarchy as in the RAW\_DATA directory. An overview of the processing statistics, including the download of files containing scaled and merged intensities is now available in ISPYB. [Read more.](#)

## GETTING THE MOST OF YOUR SAMPLES?

If your crystals suffer severely from radiation damage but they are long in one dimension, why not try a **helical protocol** which will expose fresh parts of your crystal throughout the data collection? [Read more.](#)

If your crystals are so small that you don't know where they lie in the loop, or they are large but you are looking for the most ordered parts then **mesh and line scans** are tailor-made for finding small crystals or locating the best diffracting area of a large crystal. [Read more.](#)

## BIO-SAXS

You can't crystallise your macromolecule or your macromolecular complex but you need information about the molecular envelope? Or you need to monitor conformational changes in solution over a wide variety of conditions? Bio-SAXS (small angle X-ray scattering of biological samples) is the way to go! [Read more.](#)

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