

# Workshop Program

Tuesday 29<sup>th</sup> June 2010

Morning: Arrival of participants.  
Registration from 10h to 12h.

*Lunch at the ESRF restaurant*

13h45 Welcome by local university & research institutes colleagues

Introduction by the Organisers

14h15 *Dr. Serge Pérez* -Presentation of the scientific site & platforms : The European Photon and Neutron Scientific Campus. Opportunity for structural glycobiology.

15h00 *Prof. Franck Fieschi* - Over-expression & purification of recombinant lectins.

*Tea Break.*

16h15 *Dr. Eric Samain* - Expression and purification of recombinant glycan

17h00 *Prof. Steve Perkins* - Solution studies: Analytical ultracentrifugation, SAXS, SANS.

*Dinner*

## Wednesday 30<sup>th</sup> June 2010

8h30 *Dr. Matthew Bowler* - High throughput protein crystallography at synchrotron facilities

9h30 *Prof. Jesús Jiménez Barbero* - NMR of oligosaccharide and protein oligosaccharide complexes

*Coffee Break*

10h45 *Dr. Nicole Thielens* - Protein-sugar interaction: Surface Plasmon Resonance

11h30 *Dr. Bruce Turnbull* - Protein-sugar interactions: IsoThermal Micro-Calorimetry

*Lunch at the ESRF restaurant*

14h00 *Dr. Trevor Forsyth* -Application of neutron diffraction to glycoscience

15h00 *Dr. Serge Pérez & Dr. Anne Imberty* - Molecular Modeling of Bioactive Oligosaccharides and their Interactions with Proteins.

*Tea Break*

16h15 *Dr. Guy Schoehn* - Application of Transmission Electron Microscopy to virology

Closing Lecture

17h00 *Dr. Hugues Lortat Jacob* - HIV-1 entry inhibition by a synthetic CD4-Heparan glycoconjugate

*Banquet*

**Thursday 1th July 2010**

**Practicals  
(visits and/or demonstration)**

Practicals are organized for 40 participants in two parallel sessions : beamlines at the ESRF/ILL, and electron microscopy and surface plasmon resonance at the IBS. Attendees will have to choose 2 activities among the 5 proposed.

**ESRF/ILL:**

*Participants will attend a general presentation followed by a visit of one macromolecular beamlines:*

- 1) *biocrystallography*
- 2) *bio-saxs*
- 3) *neutron scattering (to be confirmed)*

**IBS:**

*Transmission Electron Microscopy*

- 4) *Participants will participate in a sample preparation and observation using TEM*

*Surface plasmon resonance*

- 5) *Participants will participate in a set of interaction tests by SPR*

8h30 -10h00. Group 1 - ESRF+ILL (Beam Lines) / Group 2 - IBS (TEM & SPR)

*Coffee Break / Site Change*

10h30-12h00 : Group 2 - ESRF+ILL (Beam Lines) / Group 1 - IBS (TEM & SPR)

*Lunch at the ESRF restaurant*

14h : Delivering Certificates of attendance + Group photo.

15h : Concluding remarks.

End



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