

Workshop Program

Tuesday 29th June 2010

Morning: Arrival of the 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 Science 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 30th 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* - Molecular modelling of bioactive oligosaccharide and their interactions with proteins.

Tea Break

16h15 *Dr. Guy Schoehn* - Application of Transmission Electronic 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 organised 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 (Beamlines) / Group 2 - IBS (TEM & SPR)

Coffee Break / Site Change

10h30-12h00 Group 2 - ESRF+ILL (Beamlines) / 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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