













WORKSHOP

"STRUCTURAL GLYCOSCIENCE"

GRENOBLE, 28th JUNE and 30th JUNE 2016

Glycoscience is a rapidly expanding and exciting field that is relevant to many areas of chemistry, biology and medicine. Structures of Glycan or Protein/Glycans complexes are of direct importance since they are key structural elements in cell and in signalling events on their surface.

The workshop will introduce and train young scientists, from a chemistry or biology background, in the most up-to-date approaches for determining the structural and dynamic properties of carbohydrates, glycan binding receptors, and analysis of their complexes.

This workshop will be validated by 2 credits by the EDCSV doctoral school.



INSTITUT DE BIOLOGIE STRUCTURALE (IBS)



ESRF/ILL

Confirmed Speakers

Dr Christine EBEL IBS (Grenoble, France)

Pr Antonio MOLINARO University of Napoli (Napoli, Italy)

Dr Antoine ROYANT ESRF (Grenoble, France)

Pr Bruce TURNBULL University of Leeds (Leeds, UK)

Dr Trevor FORSYTH ILL (Grenoble, France)

Pr Jaroslav KOČA Masaryk University (Brno, Czech Rep.)

Dr Serge PEREZ DPM (Grenoble, France)

Dr Nicole THIELENS IBS (Grenoble, France)

Dr Guy SCHOEHN IBS (Grenoble, France)

Pr Michaela WIMMEROVA Masaryk University (Brno, Czech Rep.)

Deadline for registration: 29 April 2016



Surface Plasmon resonnance



RMN 950 MHz



Electron Microscopy



ITC



Analytical Ultracentrifugation

Scientific comitee: Franck Fieschi Anne Imberty Serge Perez



http://immunoshape.eu

"Development of selective carbohydrate immunomodulators Targeting C-type Lectin receptors on antigen presenting cells"



Contact and Information:
Gwendoline Vallez
gwendoline.vallez@ujf-grenoble.fr

Bison















Workshop Preliminary Program

Tuesday 28th June 2016

Morning: Arrival of participants.

Registration from 10h30 to 12h in IBS entrance hall.

Lunch at the ESRF restaurant

13h30 Welcome by local university & research institutes colleagues
Introduction by the Organisers.

14h15 Dr Serge Pérez - From monosaccharide to polysaccharides, from structures to database 3D

15h15 Dr Christine Ebel - Solution studies : Analytical ultracentrifugation, SAXS, SANS, MALS

Coffee Break.

16h30 Poster Session

19h Wine & Cheese party

Wednesday 29th June 2016

8h30 *Dr Antoine Royant* – Protein crystallography and kinetic crystallography : a case study with a glycosyl transferase

9h10 Dr Trevor Forsyth - Application of neutron diffraction to glycoscience

Coffee Break

10h05 Dr Nicole Thielens - Protein-sugar interaction: Surface Plasmon Resonnance

11h00 Pr Bruce Turnbull - Protein-sugar interactions: IsoThermal Micro-Calorimetry

Lunch at the ESRF restaurant















Workshop Preliminary Program

Wednesday 29th June 2016

Practicals (visits and/or demonstration)

13h30-14h00 Visiting center of ESRF: presentation of the Synchroton.

Practicals are organized for 40 participants in two parallel sessions:

- Visit of a beamline at the ESRF + Visit of IBS platform (NMR, MS and EM)
- One practical among a group of 3 possibilities : SPR ($\underline{N}^{\circ}1$), ITC ($\underline{N}^{\circ}2$), or AUC ($\underline{N}^{\circ}3$). Attendees will have to choose 1 activity among the 3 proposed.

14h15-16h15 Group 1 – ESRF beamline/ IBS (platforms) / Group 2 - IBS practicals

Coffee Break / Site Change

16h45-18h45 Group 2 – ESRF beamline/ IBS (platforms) / Group 1 - IBS practicals

Gala Diner

Thursday30th June 2016

8h30 Pr Antonio Molinaro – NMR of oligosaccharide and protein oligosacharide complex

9h10 Pr Jaroslav Koča - Structural Bioinformatics and Molecular Modeling

Coffee Break.

10h05 Dr Guy Schoen – Electron microscopy: new opportunities

10h45 *Closing Seminar* – Michaela Wimmerova- title to be defined.

11h30 Delivering Certificates of attendance

11h45 Concluding remarks.

Lunch-End

Scientific comittee: Anne Imberty, Serge Perez, Franck Fieschi

Organizing comittee : Michel Thépaut, Jerôme Dupuy, Corinne Vives, Isabelle Petit Haertlein, Silvia Achilli (IBS); Annabelle Varrot (CERMAV)















WORKSHOP

"STRUCTURAL GLYCOSCIENCE"

Registration Form

- Registration is free but participants are limited to 40.
- · Lunches, gala diner, coffee breaks are provided.

First Name:		Name:	
Age: Nation	nality:	Organization:	
Date of birth:	Place of Bi	rth:	
Address:			
Postal code:	Location:	Country:	
Email:		Tel:	
Position: PhD ☐ Name of the princip			
Order of preference	e for practicals (lab	pel from 1 to 3, maximum to minimum inte	erest)
SPR: ITC:	AUC:		
I want to participate	to the Gala diner :	ation : 🖵 Yes 🖵 No 🖵 Yes 📮 No es:	

Include with the application the following documents:

- short curriculum vitae

- a letter of interest for the workshop

- an abstract of your poster (for selection)

This form and the corresponding documents should be sent by e-mail before the 29th of April to:

Gwendoline Vallez: gwendoline.vallez@ujf-grenoble.fr

Contacts for information:

Dr Corinne Vives: corinne.vives@ibs.fr

Dr Annabelle Varrot (CERMAV-CNRS): varrot@cermav.cnrs.fr

Pr Franck Fieschi (IBS-University Grenoble-Alpes): franck.fieschi@ibs.fr

Dr Anne Imberty (CERMAV-CNRS): anne.imberty@cermav.cnrs.fr