



## **PROGRAM:**

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### **Monday 4<sup>th</sup> November 2013 / CERMAV (University Campus)**

13:45- **Registration**

14:00-14:15- **Opening and Welcome**

**Christelle Breton:** Opening as head of the Grenoble doctoral school in Chemistry and Life Science

**Bruce Turnbull:** COST-CM1102 Chair

**Anne Imberty:** Local organization

14:15-14:45- **Lecture 1.** Introduction – Protein carbohydrate interactions

**Anne Imberty (CERMAV-Grenoble)**

14:45-15:30- **Lecture 2. :** Protein-sugar Interaction: Surface Plasmon Resonance

**Nicole Thielens (IBS-Grenoble)**

15:30-16:15- **Coffee break**

16:15-17:00- **Lecture 3.** Protein-carbohydrate interactions: Isothermal Micro-Calorimetry

**Bruce Turnbull (University of Leeds)**

17:00-18:30- **Attendee Flash Presentations** (short 5 minute presentations)

19:30- **Get together (probably wine and cheese) with all participants**

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### **Tuesday 5<sup>th</sup> November 2013 / Site of ESRF-ILL-IBS**

9:00-9:30 **Lecture 4.** Monosaccharides to polysaccharide – structural introduction

**Serge Pérez (CERMAV-Grenoble)**

09:30-10:15- **Lecture 5.** X-ray crystallography or protein/carbohydrate complexes

**Bauke W. Dijkstra (ESRF- Grenoble)**

10:15-11:00- **Lecture 6.** Kinetic crystallography of glycoenzyme

**Antoine Royant (IBS- Grenoble)**

11:00-11:20- **Coffee break**

11:20-12:05- **Lecture 7.** Application of neutron diffraction to glycosciences

**Trevor Forsyth (ILL-Grenoble)**

12:05- 12:30- **Questions and discussion**

12:30-14:00- **Lunch (cafeteria ILL/ESRF)**

**14:00 – 18:30 Practicals (visits and/or demonstration)**

Practicals will consist of a visit of ESRF and of beam lines, and one demonstration to be selected between SPR, Molecular modelling, and maybe more...

**Free evening**

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**Wednesday 6<sup>th</sup> November 2013 / CERMAV (University Campus)**

9:00-9:45- **Lecture 8.** Molecular modeling: building carbohydrate and docking in receptor sites  
**Alessandra Nurisso. (University of Geneva)**

9:45-10:30- **Lecture 9.** NMR as tool to decipher "sweet " words between microbe and host  
**Antonio Molinaro (University of Napoli)**

10:30-11:45- **Coffee break**

11:45-12:30- **Lecture 10.** Integrated approaches: The fascinating DC-SIGN story  
**Franck Fieschi (IBS – Grenoble)**

12:35-13:00- **Questions and discussion**

13:00-14:00- **Lunch (Cafeteria near CERMAV)**

14h : Delivering « Certificates of attendance » + Group picture.

15h : Evaluation / Concluding remarks