



Glyco@Alps
Univ. Grenoble Alpes



Structural Glycoscience Summer School

Grenoble, 5-7 June 2024





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Grenoble, 5-7 June 2034





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Complex sugars for smart materials,
sweet biotechnology and alpine glycoresources

Since 2017
30 research groups
80 students & Post-doc



financé par
IDEX Université Grenoble Alpes

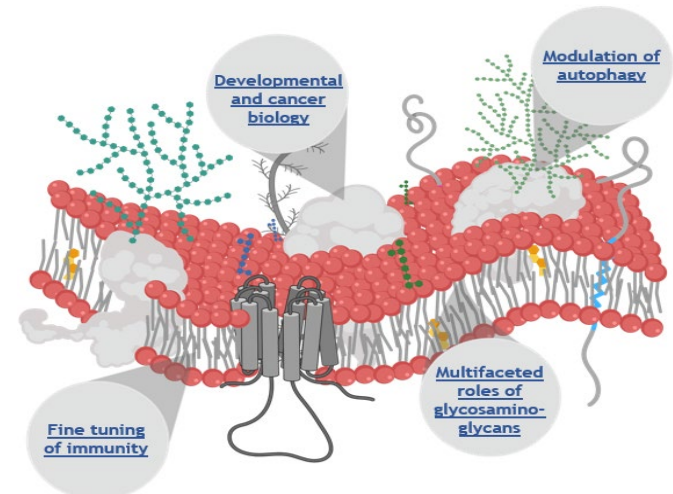
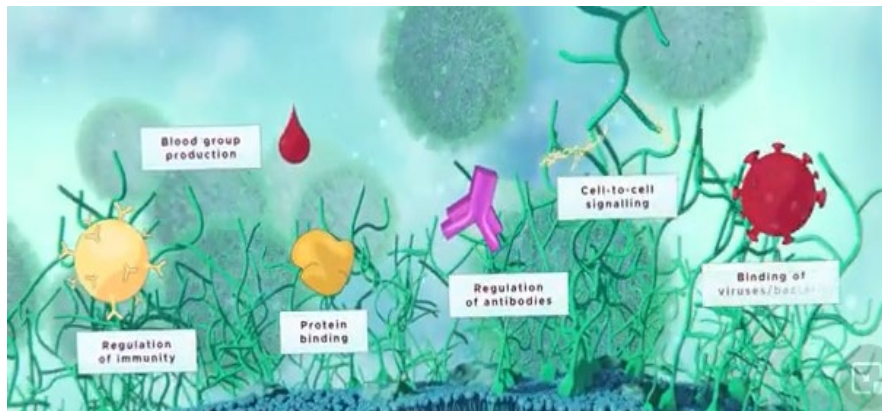


COST ACTIONS



Functional Glyconanomaterials for the Development of Diagnostics and Targeted Therapeutic Probes

***Innovation with Glycans
New Frontiers from Synthesis to New
Biological Targets***



PRE-HISTORY OF THE SUMMER SCHOOL

WORKSHOP

“STRUCTURAL GLYCOSCIENCE: METHODS AND
INSTRUMENTATION”

29-30 june 2010



HISTORY OF THE SUMMER SCHOOL



COST Action CM1102 : MultiGlycoNano
« Multivalent Glycosystems for Nanoscience »
Workshop 4-6 Nov 2013, Grenoble

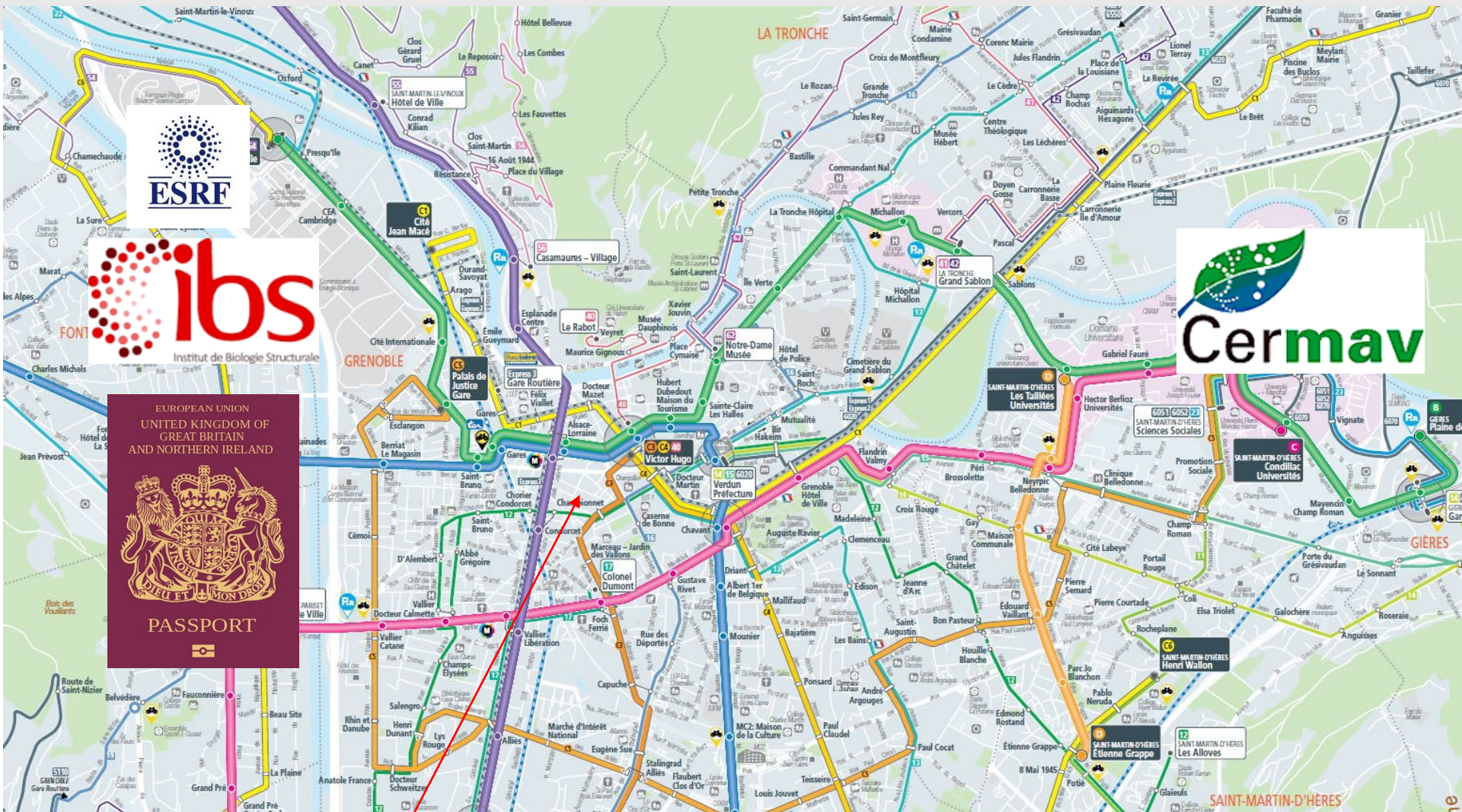
39 PARTICIPANTS FROM 18 COST COUNTRIES



39 PARTICIPANTS FROM 21 NATIONALITIES

	Albania		Germany		Nepal
	Argentina		Grece		Poland
	Benin		India		Portugal
	China		Ireland		Spain
	Cuba		Israel		Slovenia
	Estonia		Italy		Taiwan
	France		Lebanon		United Kingdom

ONE SUMMER SCHOOL – TWO SITES



Bend Bar – 15 rue Genissieu (19H30 – Tomorrow)

MONDAY 5 JUNE - CERMAV

08:30 Registration open

09:00 **Introduction** Anne, Romain & Serge
Welcoming to CERMAV Laurent Heux

09:25 **From monosaccharide to polysaccharides, from structures to database 3D**
 Serge Perez

10:10 **Coffee break**

10:30 **Docking and Molecular modelling**
 Elisa Fadda

11:15 **Protein-sugar interaction : Isothermal Titration Calorimetry**
 Bruce Turnbull

12:00 **Glycobioinformatics**
 Frédérique Lisacek

12:30	Lunch	
13:30	ITC Group 1	ITC nanobio Group 2
	Database & Modeling Groups 3 & 4	
15:00	Database & Modeling Groups 1 & 2	ITC Group 3
		ITC nanobio Group 4
16:30	Coffee break	
16:45	Poster session	
18:30	Wine & cheese aperitif	

TUESDAY 6 JUNE - IBS

8H00 at the gate with ID

08:30	IBS présentation Romain Vivès
08:40	Protein-sugar interaction : Surface Plasmon Resonance / BLI Jean-Baptiste Reiser
09:25	Introduction to single particle electron microscopy Rebekka Wild
10:10	Coffee break
10:30	Solution studies: Analytical ultracentrifugation, SAXS, MALS, and mass photometry Caroline Maes
11:15	NMR of oligosaccharide and protein oligosaccharide complex Tony Molinaro
12:00	Viral glycoscience Elisa Fadda
12:30	Lunch

13:45	SPR Group 1	AUC SECMALLS Group 2	RMN Group 3	CryoEM Group 4	Meet Speakers Groups 5&6
15:00	Coffee break				
15:10	SPR Group 5	AUC SECMALLS Group 6	RMN Group 1	CryoEM Group 2	Meet Speakers Groups 3&4
16:25	Coffee break				
16:40	SPR Group 3	AUC SECMALLS Group 4	RMN Group 5	CryoEM Group 6	Meet Speakers Groups 1&2
18h05					

19H30 Bend Bar
15 rue Genissieu

WEDNESDAY 7 JUNE - IBS - ESRF

8H00 at the gate with ID

08:30 Protein X-ray crystallography and glycobiology

Annabelle Varrot

09:15 Visit of ESRF

Monsterrat Soler Lopez

11:00 Coffee break

11:15 Heparan Sulfate oligosaccharides

Romain Vives

12:00 Diplomas, Conclusions

PRACTICAL INFORMATIONS

- **Wifi Access → Use Eduroam**
- **Practicals – programs should be installed !! if not ask us**
- **Stick to the group assigned on your color tickets**
- **Lunch and dinners - officially not provided for COST participants**
- **Certificates distributed on last day + questionnaire**

THANKS TO



- The Speakers & the colleagues involved in practicals
- The Glyco@Club students for their help
- The Organising committee (Romain, Serge, Claire & Anne)



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