



**PROGRAMME GFG 2024**  
**OBERNAI, ALSACE - DU 27 MAI AU 31 MAI 2024**

**Lundi 27 mai 2024**

15h00-18h00 Accueil - café

18h00-18h20 Ouverture du GFG2024

*Philippe Compain*

18h20-19h00 CI-1. Louis-Charles Campeau - *A journey in over a decade of nucleoside chemistry*

19h30 Cocktail de bienvenue

20h Dîner

**Mardi 28 mai 2024**

*Anne Bodlener*

9h00-9h40 CI-2. Carmen Ortiz-Mellet - *Evolving landscape of glycomimetic targets in biology and medicine: from enzymes to lectins to immune response mediators*

9h40-10h20 CI-3. Elizabeth Ficko-Blean - *Marine microbe interactions with the red algal cell wall and the exquisite specificity of a 3,6-anhydro-D-galactosidase*

10h20-10h35 CO-1. Xiaoyang Hou - *Design of immobilized enzyme reactor for polysaccharides molecular modification and oligosaccharides production*

10h35-11h00 Pause café

*Damien Hazelard*

11h00-11h40 CI-4. Angélique Ferry - *Metal-catalyzed C-H functionalization of glycal-type substrates*

11h40-12h05 Maxime Rieb - *Advion Interchim scientific*  
Clément Denys - *Elicityl*

12h05-13h30 Pause repas

13h30-15h00 Session posters

Elizabeth Ficko-Blean - Mathieu Sollogoub

- 15h00-16h20** CI-5. **Sylvia Collic-Jouault** - *Marine bacterial exopolysaccharides as a source of glycosaminoglycan-mimetics for drug discovery*  
CI-6. **Yves Blériot** - *Merging superacids and carbohydrates to study elusive species involved in glycosyl transfer*

**16h20-16h50** Pause café

- 16h50-18h00** CO-2. **Mélyne Baudin Marie** - *Multivalent sialic acid derivatives as potent sialidases inhibitors and therapeutic perspective against intestinal inflammation*  
CO-3. **Victor Crespin** - *Stereoselective  $\beta$ -C-aryl glycosylation through Ni-catalysed cross-coupling*  
CO-4. **Narimane Mati-Baouche** - *Functional characterization of the alpha glucosidase II (GSII) in the green microalga *Chlamydomonas reinhardtii**  
CO-5. **Julien Piechowiak** - *Synthesis of mannoside probes as potential inhibitors of mycobacteria cell wall biosynthesis*  
CO-6. **Pierre Çarçabal** - *Like likes like! Interaction between sugars and water molecules in the gas phase*

**20 h** Dîner

## Mercredi 29 mai 2024

Sylvie Fournel-Gigleux

- 9h00-9h40** CI-7 **Lena Kjellén** - *Heparan sulfate biology: What a difference an N-sulfate group makes!*

- 9h40-10h30** CO-7. **Thanh Van Tran** - *Synthesis of 1-C-dithiane and 1-C-nitromethane iminosugars from sugar lactams*  
CO-8. **Nicolas Jouandon** - *C,O-bis-propargyl glycosides for the synthesis of potential new SGLT-2 inhibitors by [2+2+2] cyclotrimerization*  
CO-9. **Alexandre Grosse** - *A straightforward synthetic pathway towards 1,2-cis and 1,2-trans sugar-nucleotides*  
CO-10. **Ameni Hadj Mohamed** - *Diastereoselective anomeric C(sp<sup>3</sup>)-H cyclization towards the design of new generations of glycopeptides*

**10h30-11h00** Pause café

Vincent Ferrières

- 11h00-11h40** CI-8. **Joanne Xie** - *Exciting experiences with photoswitchable glycosides*

- 11h40-12h05** CO-11. **Jean-Bernard Behr** - *New analogues of 2-methylerythritol cyclodiphosphate by substitution of CH<sub>3</sub> for CH<sub>2</sub>F or CF<sub>3</sub> for the study of IspG*  
CO-12. **Albertus Viljoen** - *Molecular organization of C-type lectin ligands at the mycobacterial surface revealed by AFM*

**12h05-13h30** Pause repas

13h30-19h00 Visite commentée d'Obernai ou d'un vignoble alsacien  
19h00 Dégustation de vins d'Alsace avec Gilbert Lang

20h Dîner

## Jeudi 30 mai 2024

*Sandrine Gulberti*

9h00-9h40 CI-9. Patrice Lerouge - *Rhamnogalacturonan II : an enigma in plant glycobiology*

9h40-10h30 CO-13. Elodie Treuillet - *Synthesis of multivalent Chondroitin Sulfate (CS) oligosaccharides to study CS-protein interactions*  
CO-14. Emeline Richard Millot - *Microbial synthesis and multivalent assembly of sialylated polylactosamines to tackle influenza viruses*  
CO-15. Sylvestre Toumieux - *TLR4-mediated inflammatory response modulation using sulfated cellobioside derivatives*  
CO-16. Teresa Piechowiak - *Synthetic explorations around Campylobacter jejuni HS:23/36 capsular polysaccharides*

10h30-11h00 Pause café

*Yves Blériot*

11h00-11h40 CI-10. Matthieu Sollogoub - *Biomimesis using modified Cyclodextrins*

11h40-12h05 CO-17. Feiyang Wang - *3D-bioprinting applications of new generation of oxidized lignocellulosic biomasses*  
CO-18. Julie Bouckaert - *Oligomannose binding by FimH: which mannose to grab?*

12h05-13h30 Pause repas – Photo groupe

13h30-15h45 Session posters

15h45-16h15 Pause café

*Jérôme Nigou*

16h15-16h45 **Prix Bernard Fournet-André Verbert**  
Mylène Lang - *Diastereoselective synthesis of C,C-glycosyl amino acids via iron-catalyzed MHAT coupling*  
Jasna Nikolić Chenais - *Establishing fine structural signatures from synthetic heparin oligosaccharides for nanopore-based characterization of GAGs*  
16h45-18h00 **Assemblée Générale du GFG**

19h00 Apéritif

20h Dîner de Gala suivi d'une soirée dansante

## Vendredi 31 mai 2024

Stéphanie Norsikian - Serge Perez

**9h00 - 9h40** CI-12. **Olivier Renaudet** - *Cyclopeptide-based glycodendrimers in glycoscience*

**9h40-10h20** CO-19. **Juliette Dourdan** - *Synthesis and GalNAc–lectin interactions study of C-glycoside analogues of the T<sub>N</sub> antigen*

CO-20. **Sandrine Py** - *C-Branched iminosugars as selective pharmacological chaperones of lysosomal  $\alpha$ -glucosidase for the treatment of Pompe Disease*

CO-21. **José M. García Fernández** -  *$\beta$ -Cyclodextrin-based geometrically frustrated amphiphiles: synthesis, self-assembly and DNA delivery capabilities*

**10h20-10h50** Pause café

**10h50-11h30** CI-13. **Sylvie Ricard-Blum** - *Syndecan conformations, interactions and functions: role of intrinsic disorder and glycosaminoglycans*

**11h30-12h00** Remise des Prix Posters et Communications orales  
Clôture du GFG2024

**12h00-13h30** Pause repas

**13h30-15h00** MASTERCLASS avec Jean-Pierre Sauvage