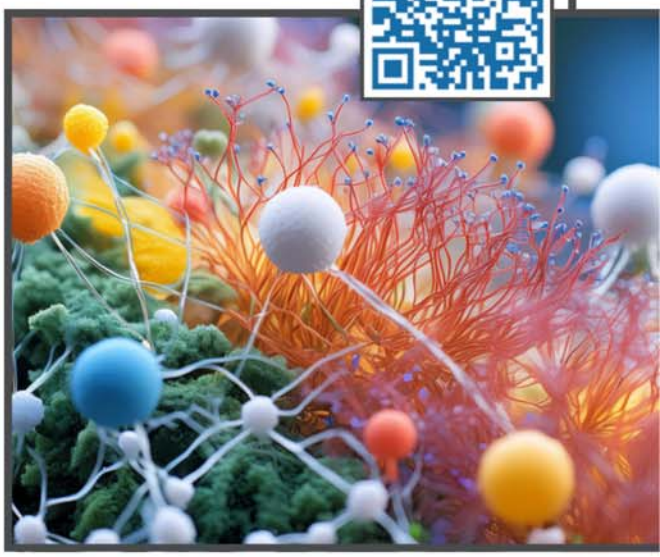
Glycobiology: the sweet side of life in health and disease

Inserm Workshop 285

Catherine BUI (University of Lorraine, Vandœuvre-lès-Nancy), **José Alexandre FERREIRA** (IPO-Porto, Portugal) **& Yann GUERARDEL** (UGSF, Lille)

Phase I objective is to provide participants with the essential knowledge and practical skills required for integrating the concept of glycobiology, which is the study of complex sugars (glycans) attached to proteins and lipids and their relevance in human diseases.

Deadline : **June 27, 2025**



PHASE I THEORETICAL

October 15-17, 2025

Bordeaux

FUNDAMENTALS OF GLYCOBIOLOGY: STRUCTURE, BIOSYNTHESIS, FUNCTIONS OF GLYCANS

Yann GUERARDEL (CNRS-University of Lille, FRA), Sandrine GULBERTI (University of Lorraine, FRA), Catherine BUI (University of Lorraine, FRA) & Anne IMBERTY (CERMAV, FRA)

ROLES OF GLYCANS IN HUMAN PATHOLOGIES

Celso REIS (i3S-University of Porto, PRT), Boualem SENDID (CHU-Université of Lille, FRA), François FOULQUIER (CNRS-Université of Lille, FRA) & Salomé PINHO (i3S-University of Porto, PRT)

TRANSLATIONAL GLYCOBIOLOGY

Fredrik NOBORN (University of Gothenburg, SWE), Heinz LÄUBLI (University of Basel, CHE), Yvette van KOOYK (Amsterdam UMC, NLD), Jeremy TURNBULL (Keele University, GBR) & Manfred WUHRER (Leiden University, NLD)

HOW SHOULD WE APPROACH THE STUDY OF GLYCANS?

Hans WANDALL (Copenhagen Center for Glycomics, DNK), Muriel BARDOR (University of Rouen, FRA), Ben SCHUMANN (Imperial College London, GBR) & Kiyoko AOKI-KINOSHITA (Soka University, JPN)

PHASE II PRACTICAL

November 12-14, 2025

Lille & Nancy

Phase II objective is to provide participants with specific practical knowledge and expertise in methodologies for detecting, identifying and analyzing glycoconjugates in cells, tissues or patients' fluids.

These include the use of probes or antibodies targeting carbohydrate epitopes, specific extraction methods for the isolation of different types of glycoconjugates, the coupling to fluorescent probes and the use of physico-chemical methods (liquid-chromatography or mass-spectrometry) dedicated to the analysis of glycoconjugates and the measurement of glycosyltransferase activity.

The program will also instruct participants to exploit the acquired data to identify potential defects or (glyco)pathologies.

SELECTION: 10 trainees for Lille and 6 trainees for Nancy will be selected among Phase I participants.

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