

September 26th, 2025
15:00-16:00
iGCORE岐阜研究棟1F
Glyco Hall (+ZOOM)

iGCORE Seminar



Human Glycome Atlas Project

Supported by iGCORE, J-GlycoNet, and HGA



Prof. Manfred Wuhrer (Ph.D.)

Center for Proteomics and Metabolomics,
Leiden University Medical Center, Netherlands



Seminar title:

Glycosylation modulating antibody function in infection and immunity

Keywords: Glycomics, Glycoproteomics, Mass spectrometry

References:

- Falck D, Wuhrer M. GLYcoLISA: antigen-specific and subclass-specific IgG Fc glycosylation analysis based on an immunosorbent assay with an LC-MS readout. *Nat. Protocol.* 19(6):1887-1909. 2024.
- van der Burgt Y, Wuhrer M. The Role of Clinical Glyco(proteo)mics in Precision Medicine. *Mol Cell Proteomics.* 6:100565. 2023.
- Gstöttner C, Knaupp A, Vidarsson G, Reusch D, Schlothauer T, Wuhrer M, Domínguez-Vega E. Affinity capillary electrophoresis - mass spectrometry permits direct binding assessment of IgG and FcγRIIIa in a glycoform-resolved manner. *Front Immunol.* 13:980291, 2022.
- Lopez-Perez M. et al. Acquisition of Fc-afucosylation of PfEMP1-specific IgG is age-dependent and associated with clinical protection against malaria. *Nat Commun.* 2025 Jan 2;16(1):237

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Dr. Zoe Durin (Ph.D.)

CNRS

Unité de Glycobiologie Structurale et Fonctionnelle,
Université de Lille



Seminar title:

Disrupted Ion Homeostasis in CDG: A Window into Glycosylation Regulation

Keyword: calcium, Manganese, CDG, glycosylation, Golgi apparatus

Reference:

- Durin Z et al. SLC10A7 regulates O-GalNAc glycosylation and Ca²⁺ homeostasis in the secretory pathway: insights into SLC10A7-CDG. *Cell Mol Life Sci.* 8;82(1):40, 2025.
- Durin Z et al. Efficacy of oral manganese and D-galactose therapy in a patient bearing a novel TMEM165 variant. *Transl Res.* 266:57-67, 2024.
- Durin Z et al. Differential Effects of D-Galactose Supplementation on Golgi Glycosylation Defects in TMEM165 Deficiency. *Front Cell Dev Biol.* 26;10:903953, 2022.

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