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GlycoDown

Protein Glycosylation in Aging-Related Diseases Through the Study of Down Syndrome as an Accelerated Aging Condition

The GlycoDown project focuses on studying protein glycosylation in individuals with Down Syndrome (DS) to understand aging-related diseases, especially Alzheimer's Disease (AD). It aims to identify glycan biomarkers of accelerated aging in DS and investigate their role in systemic inflammation and other comorbidities like autoimmune diseases. By analyzing IgG glycosylation in 300 DS individuals from three European populations, the project will explore how specific chromosome 21 gene products impact glycosylation profiles and identify glycan biomarkers predictive of AD and other diseases. The project leverages iPSCs and derived cell types to further understand how T21 influences glycosylation.