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GlycoCOVID

Glycans as Biomarkers and Functional Effectors of Severe COVID-19

The GlycoCOVID project focuses on investigating glycans, which are complex oligosaccharides attached to proteins and lipids, as biomarkers and functional effectors in severe COVID-19 cases. The project aims to evaluate the role of glycans in COVID-19 severity by analyzing total plasma glycans and IgG glycans in multiple longitudinal samples of approximately 1000 mild and severe COVID cases. The main objectives are:

1. To evaluate host protein glycosylation as a predictor of COVID-19 severity.
2. To evaluate biological age as a predictor of COVID-19 severity.
3. To evaluate changes in total protein and IgG glycosylation as predictors of severe COVID-19.

The project is supported by the Croatian Science Foundation as part of a thematic call focusing on infectious diseases caused by coronaviruses and the social and educational aspects of the pandemic.