

Resource Summary Report

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Targeted N-glycoproteomics of human plasma samples.

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Proper Citation

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Protocol Information

URL: <https://dx.doi.org/10.17504/protocols.io.ncadase>

Authors: Sakari Joenvaara, Mayank Saraswat, Pentti Kuusela, Shruti Saraswat, Rahul Agarwal, Johanna Kaartinen, Asko Jarvinen, Risto Renkonen

Summary: This protocol describes the complete protocol for performing N-Glycoproteomics from plasma samples. Albumin removal is performed prior to protein digestion with trypsin. Tryptic peptide mixture is used for enriching N-glycopeptides by lectin-affinity chromatography using a lectin-mix. Enriched N-glycopeptides are cleaned up by reverse phase chromatography and analyzed by LC-MS and LC-MS/MS. resulting MS/MS spectra is deconvoluted and saved as peak lists file which can be searched with Glycopeptideld software to identify the peptide sequence, glycan composition and proposed glycan structure.

Associated Publications: Joenvaara S, Saraswat M, Kuusela P, Saraswat S, Agarwal R, Kaartinen J, Järvinen A, Renkonen R, Quantitative N-glycoproteomics reveals altered glycosylation levels of various plasma proteins in bloodstream infected patients. PLoS ONE 13(3). doi: [10.1371/journal.pone.0195006](https://doi.org/10.1371/journal.pone.0195006)

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