

Mammalian brain glycoproteins exhibit diminished glycan complexity compared to other tissues

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Description of Additional Supplementary Files

File Name: Supplementary Data 1

Description: Individual protein glycan abundance across mouse brain regions. Data presented as mean percent abundance. For N-glycans, n=6 for each brain region. For O-glycans, CTX=3, HIP=2, STR=4, CBLM=4.

File Name: Supplementary Data 2

Description: Brain protein N-glycan structure, name, mass, and characteristics.

File Name: Supplementary Data 3

Description: Sex comparison of mouse protein N-glycan abundance in plasma, cortex, and cerebellum. For plasma samples male=8, female=6. For brain samples male=6, female=4. p-values <0.05 using an unpaired two-tailed t-tests assuming unequal variance performed for sex comparisons of individual glycans shown in bold.

File Name: Supplementary Data 4

Description: RNA expression levels of glycosylation genes detected in mouse cortex and cerebellum. EdgeR method was used for differential expression analysis of RNAseq data with gene cutoffs of 2-fold change in expression value and false discovery rates (FDR) below 0.05. *Abbreviations: ID - Ensembl ID; CTX - Cortex; CBLM - Cerebellum; AVG - Average; SEM - Standard Error of the Mean; logFC - log Fold Change; logCPM - log Copies Per Million; FDR - False Discovery Rate.

File Name: Supplementary Data 5

Description: Human glycosylation-related genes included in FUMA analysis.