

**Supplementary Tables and Figures**

**Comprehensive and quantitative investigation of human cell surface**

**N-glycoprotein dynamics**

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**The following Supplementary Tables are in Excel format:**

**Table S1** - Unique N-Glycosylation Sites (449 Sites) Identified on 233 Surface Glycoproteins in Expt# 1

**Table S2** - Unique N-Glycosylation Sites (475 Sites) Identified on 239 Surface Glycoproteins in Expt# 2

**Table S3** - The Half-Lives of 311 Unique Glycosylation Sites in Expt# 1

**Table S4** - The Half-Lives of 318 Unique Glycosylation Sites in Expt# 2

**Table S5** - The Half-Lives of 220 Quantified Cell-Surface N-Glycoproteins in Expt# 1

**Table S6** - The Half-Lives of 216 Quantified Cell-Surface N-Glycoproteins in Expt# 2

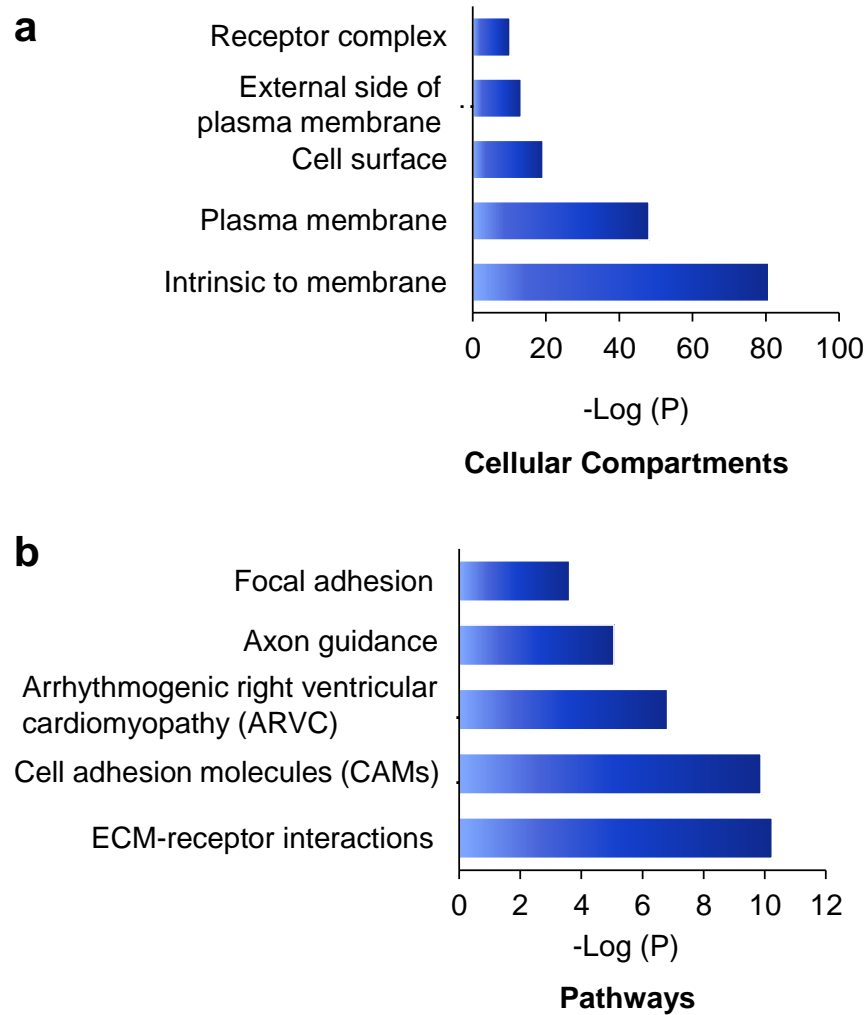
**Table S7** - Unique N-Glycosylation Sites (545 Sites) Identified on 265 Surface Glycoproteins

**Table S8** - The Half-Lives of 386 Unique Glycosylation Sites in

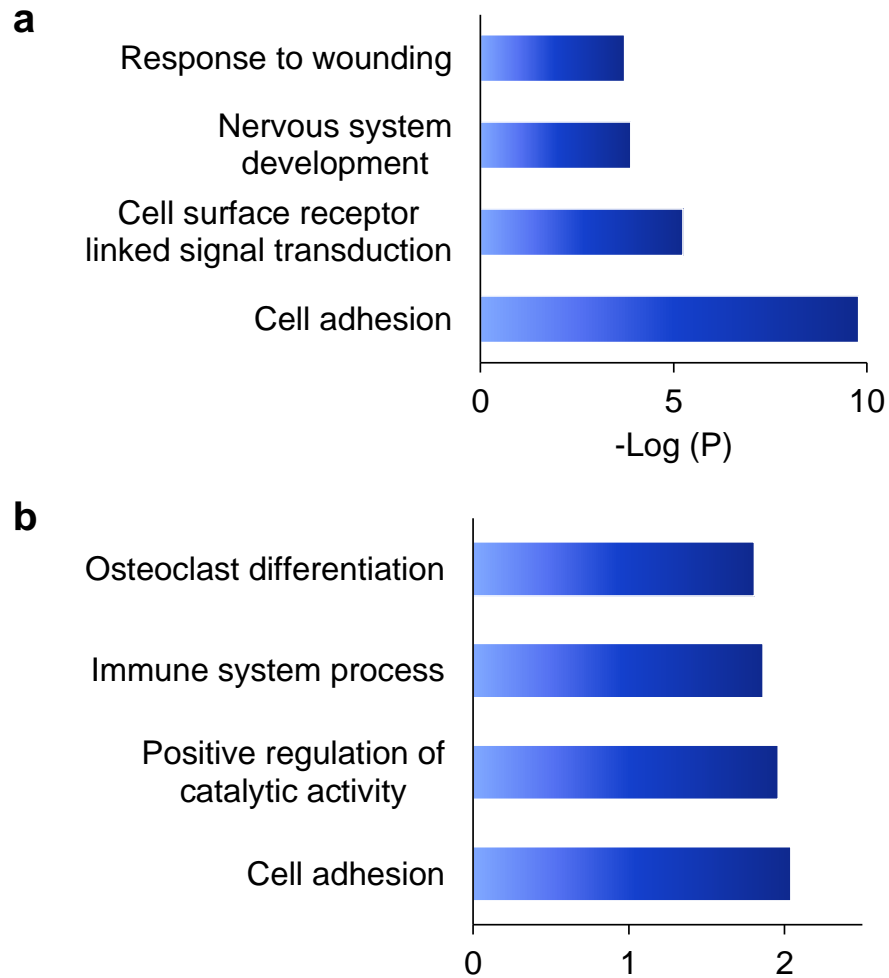
**Table S9** - The Half-Lives of 248 Quantified Cell-Surface N-Glycoproteins

**Table S10** - The Half-Lives of Quantified CDs

**Table S11** - The Half-Lives of 29 Quantified Cell-Surface N-Glycoproteins with Catalytic Activities



**Fig. S1** Clustering of surface glycoproteins identified in this work. **(a)** Cellular compartments, and **(b)** pathways.



**Fig. S2** (a) Biological processes of relatively short-lived glycoproteins (half-life <10 h). (b) Biological processes of relatively long-lived glycoproteins (half-life >100 h).