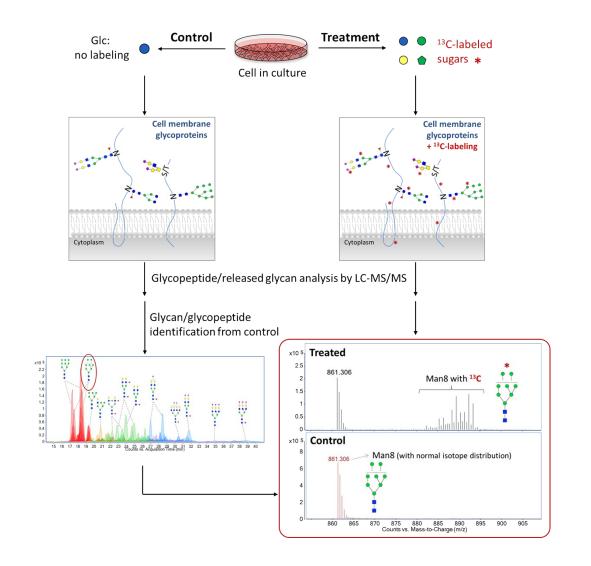
Supplementary Data

Figure S1. Incorporation of ¹³C-saccharides to cell membrane glycoproteins and identification of ¹³C-labeled glycans and glycopeptides.



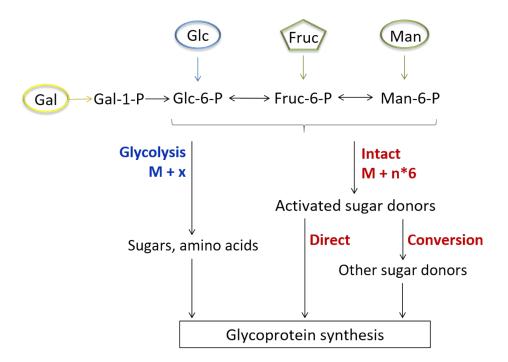


Figure S2. Different mechanisms for the incorporation of monosaccharides to glycoproteins.

Figure S3. Incorporation of ¹³C-labeled glucose, mannose, galactose, and fructose into a fucosylated and sialylated complex-type N-glycan from Caco-2 and M213 cells.

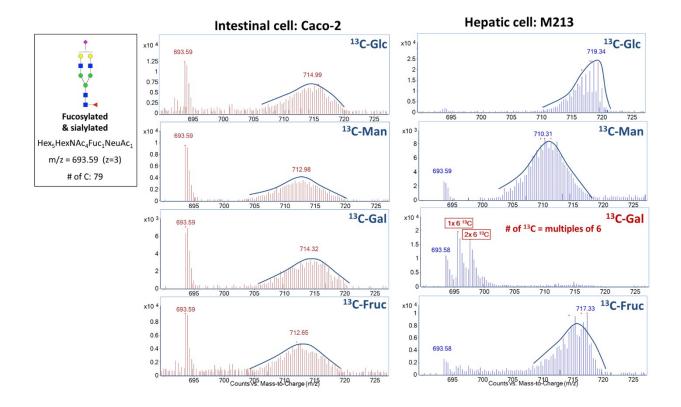
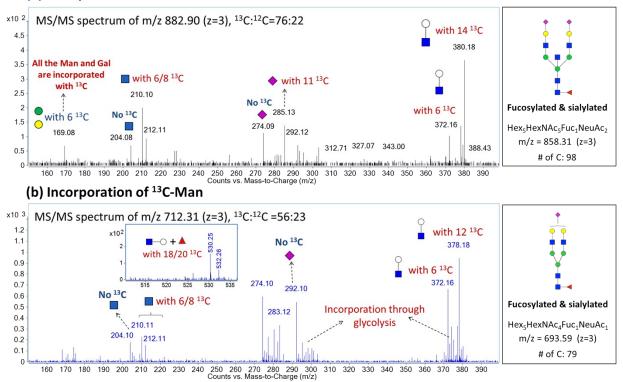
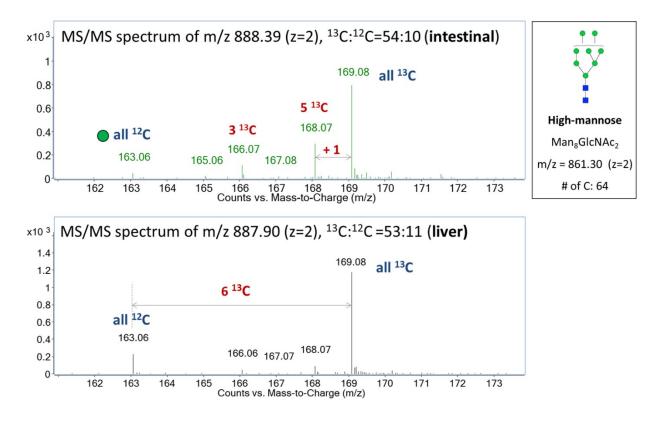


Figure S4. MS/MS spectra illustrating the incorporation and interconversion pathways of (a) ¹³C-labeled glucose in Caco-2 cells; (b) ¹³C-labeled mannose in M213 cells.



(a) Incorporation of ¹³C-Glc

Figure S5. MS/MS spectra illustrating the differential incorporation pathways of ¹³C-labeled fructose in intestinal Caco-2 cell and hepatic M213 cell.



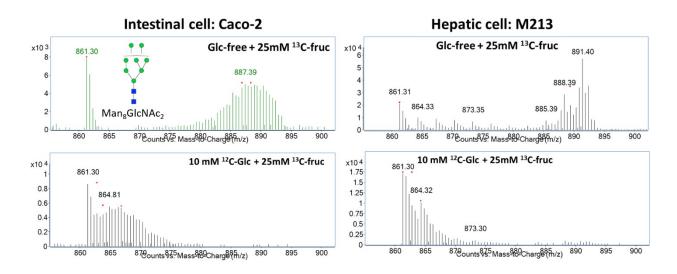


Figure S6. Decreased incorporation levels of ¹³C-fructose when glucose is present.