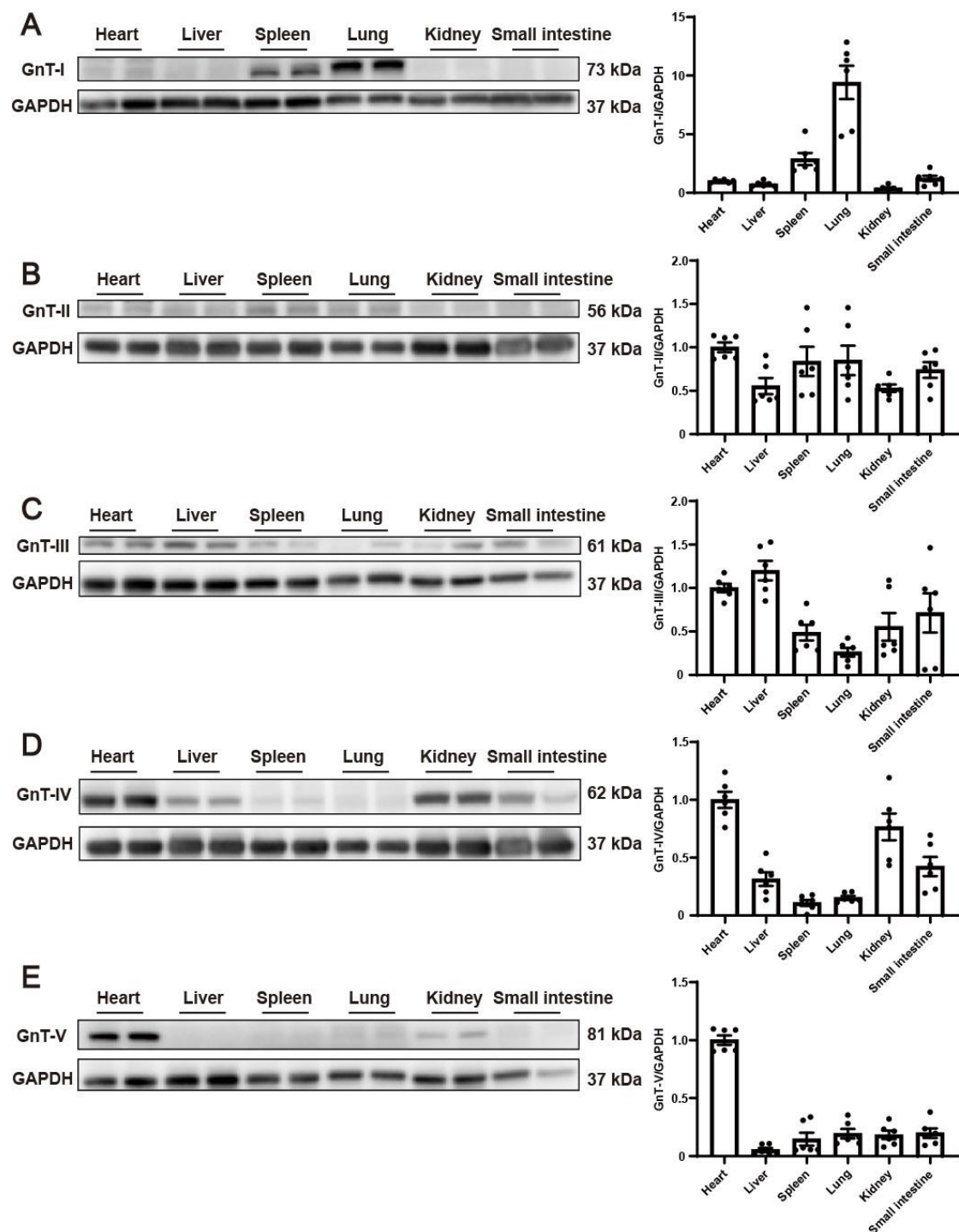
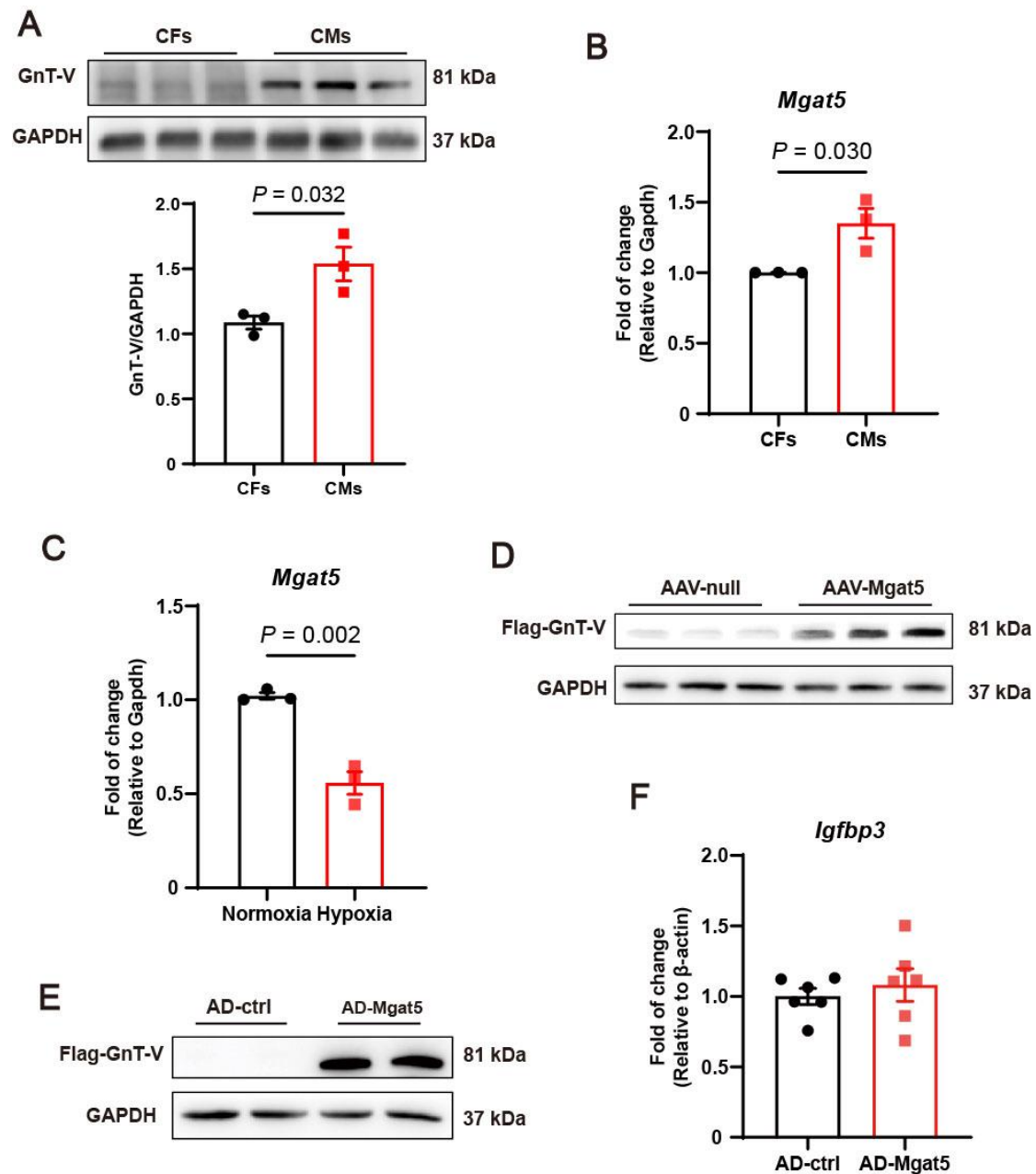


## Supplementary materials



**Figure S1:** Protein expression of key glycosyltransferases in the biosynthesis of N-glycans structure among various organ tissues. Representative western blot images and quantitative results of (A)

GnT-I, (B) GnT-II, (C) GnT-III, (D) GnT-IV and (E) GnT-V protein expression in heart, liver, spleen, lung, kidney and small intestine tissues ( $n = 6$ ). One-way ANOVA.



**Figure S2:** (A) Representative western blot images and quantitative results of GnT-V protein expression in cardiac fibroblasts (CFs) and cardiomyocytes (CMs) ( $n = 3$ ). (B) mRNA expression of GnT-V in CFs and CMs ( $n = 3$ ). (C) GnT-V mRNA expression in cardiomyocytes with hypoxia stress ( $n = 3$ ). (D) Representative western blot images of GnT-V overexpression in the myocardium.

(E) Representative western blot images of GnT-V overexpression in cardiomyocytes. (F) IGFBP3 mRNA expression in cardiomyocytes with GnT-V overexpression ( $n = 6$ ). The results are presented as mean  $\pm$  SEM. Two-tailed student's t-test.