

Supplementary data :

Application of StrucGP in medical immunology: site-specific

N- glycoproteomic analysis of macrophages

Pengfei Li, Zexuan Chen, Shanshan You, Yintai Xu, Zhifang Hao, Didi Liu, Jiechen Shen, Bojing Zhu,

Wei Dan, Shisheng Sun (✉)

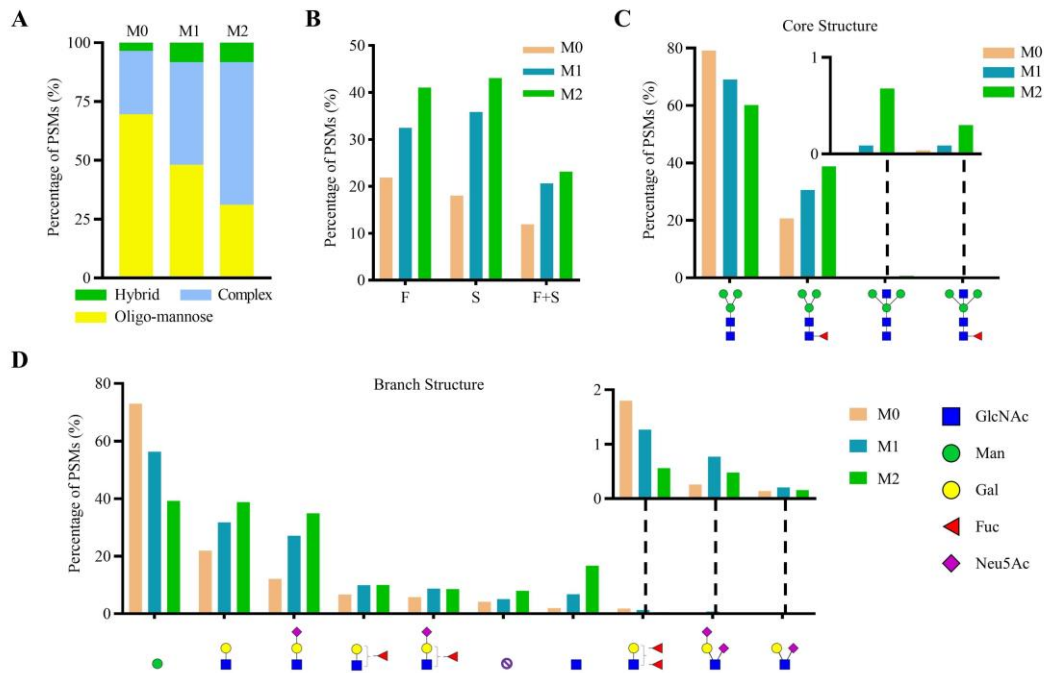
College of Life Science, Northwest University, Xi'an, Shaanxi province 710069, China.

✉ *College of Life Science, Northwest University, 229 North Taibai Road, Life Science Building, Room*

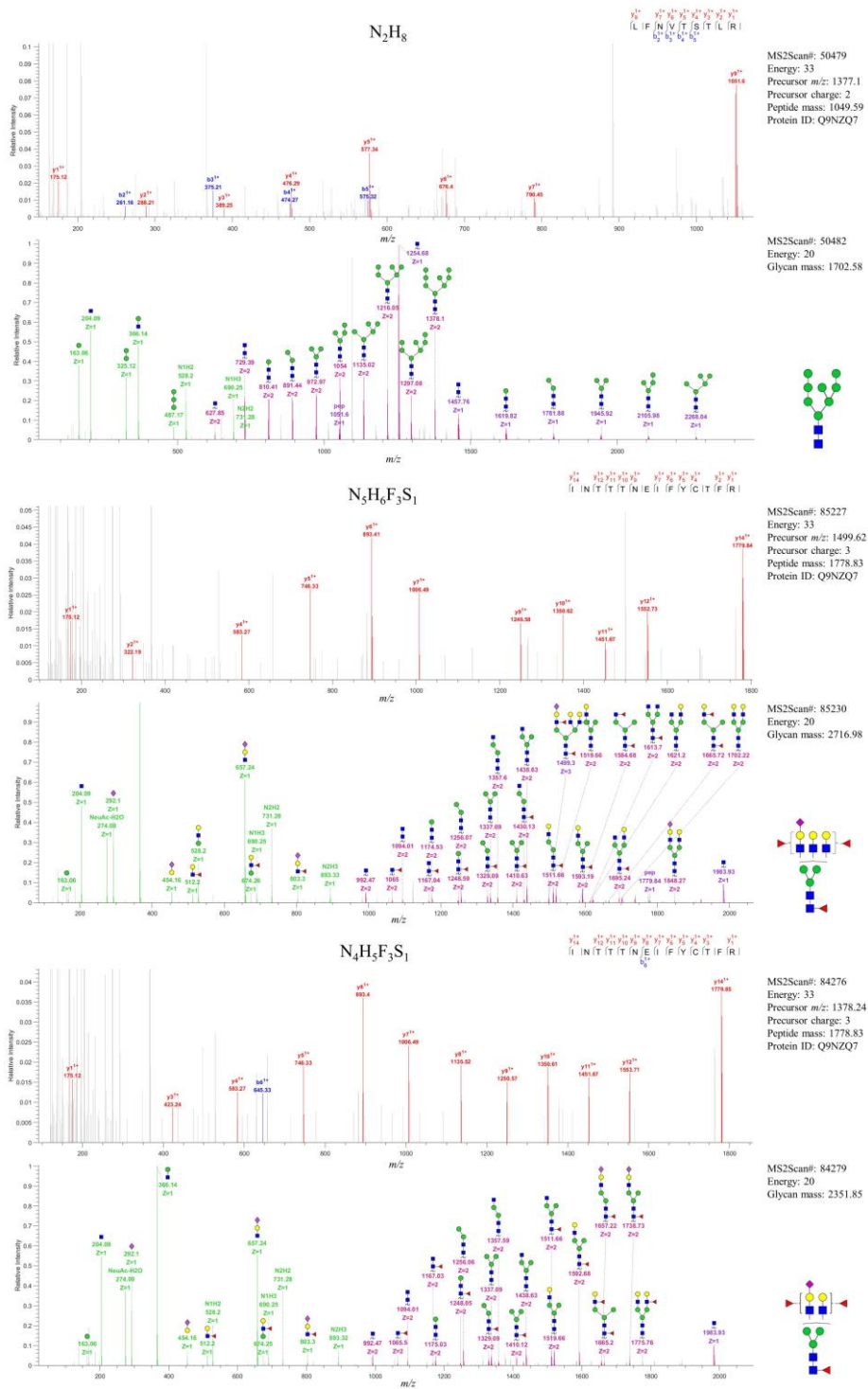
221, Xi'an, Shanxi Province 710069, P. R. China

✉ *Correspondence: suns@nwu.edu.cn.*

Supplementary figures



Supplemental Figure 1. N-glycan structure interpretation of three human THP-1 macrophage subtypes. (A, B) Distributions of different glycan subtypes in various macrophage subtypes. (C, D) Distributions of four core structures and the top 10 branch structures (including the null \emptyset) identified in the different macrophage subtypes. The percentages in A-D were calculated on the basis of the numbers of PSMs. F: Fucose and S: Sialic acid.



Supplemental Figure 3. N-glycan structures on Asn-192 and Asn-200 of PD-L1. Peptide was modified by N_2H_8 , $N_5H_6F_3S_1$, or $N_4H_5F_3S_1$. Upper: peptide sequence identification using a MS/MS spectrum of high HCD energy (HCD=33%). Lower: glycan structure determination using MS/MS spectra of low HCD energy (HCD=20%). Related to Fig. 7A.