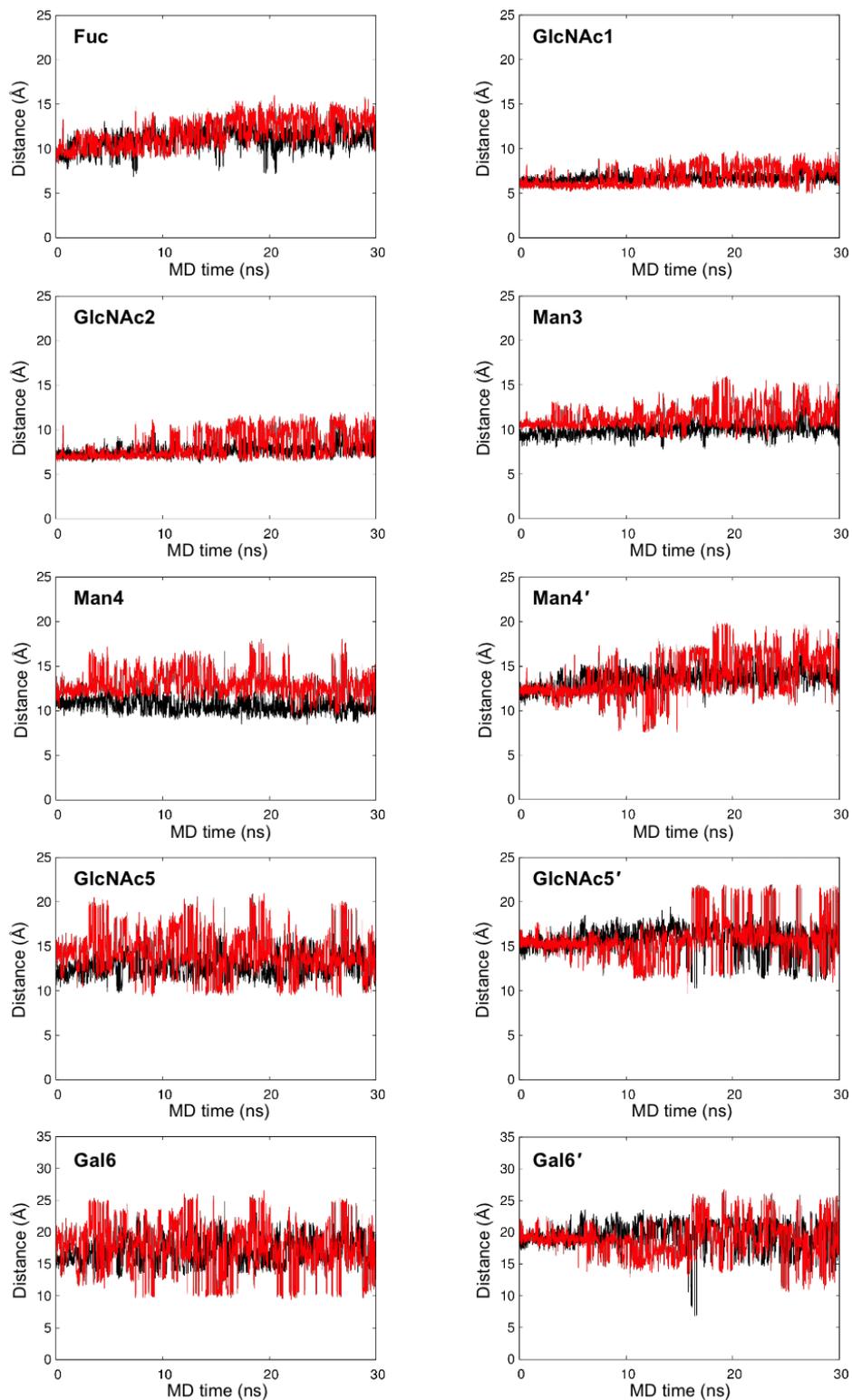


**Supplementary information****Conformational effects of *N*-glycan core fucosylation of immunoglobulin G Fc region on its interaction with Fcγ receptor IIIa**

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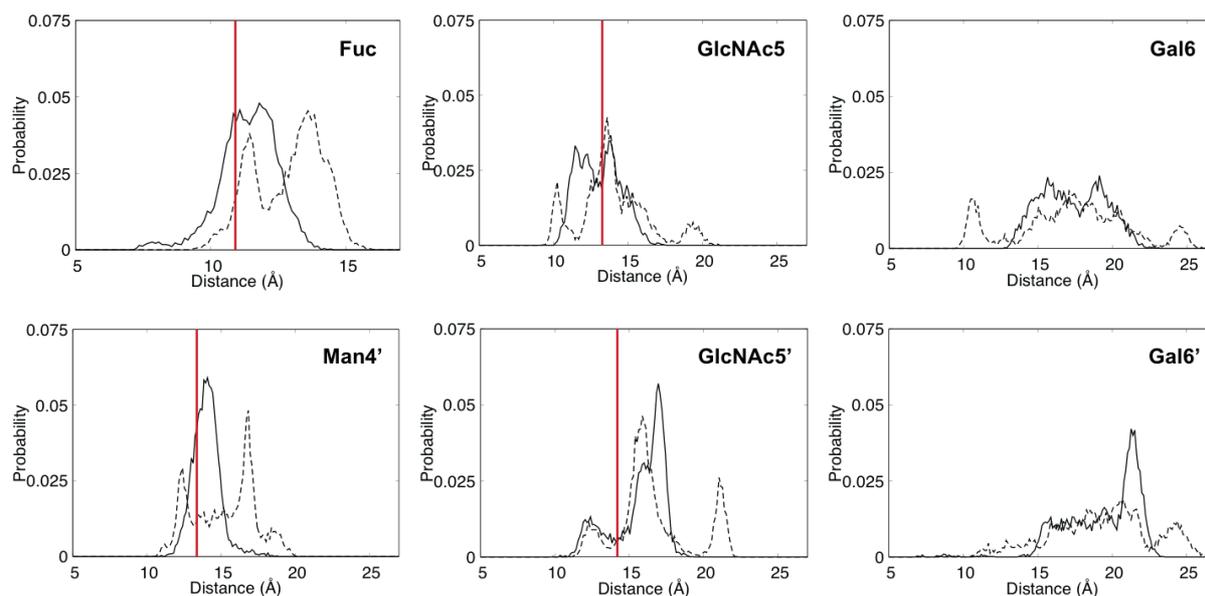
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### Supplementary Fig. S1.

Time series of the distances between GlcNAc1 of the Fc chain A glycan and the respective sugar residues (Fuc, GlcNAc1, GlcNAc2, Man3, Man4, Man4', GlcNAc5, GlcNAc5', Gal6, and Gal6') of the Asn162 glycan of sFc $\gamma$ RIIIa in the nonfucosylated (black) and fucosylated (red) systems.



**Supplementary Fig. S2.** Distribution of distances between GlcNAc1 of IgG1-Fc and outer residues (Fuc, GlcNAc5, Gal6, Man4', GlcNAc5', and Gal6') of the Asn126 glycan of sFcγRIIIa in nonfucosylated (solid line) and fucosylated (dotted line) systems. Red bars represent distances obtained by crystallographic analysis.

**Supplementary Video S1.** REMD simulation of the nonfucosylated IgG1-Fc/sFcγRIIIa complex. The *N*-glycans on chain A and B of Fc fragments and those on sFcγRIIIa are colored by marine, pink, and yellow, respectively. Carbohydrate residues are represented by sticks.

**Supplementary Video S2.** REMD simulation of the fucosylated IgG1-Fc/sFcγRIIIa complex. The *N*-glycans on chain A and B of Fc fragments and those on sFcγRIIIa are colored by marine, pink, and yellow, respectively. Carbohydrate residues are represented by sticks.