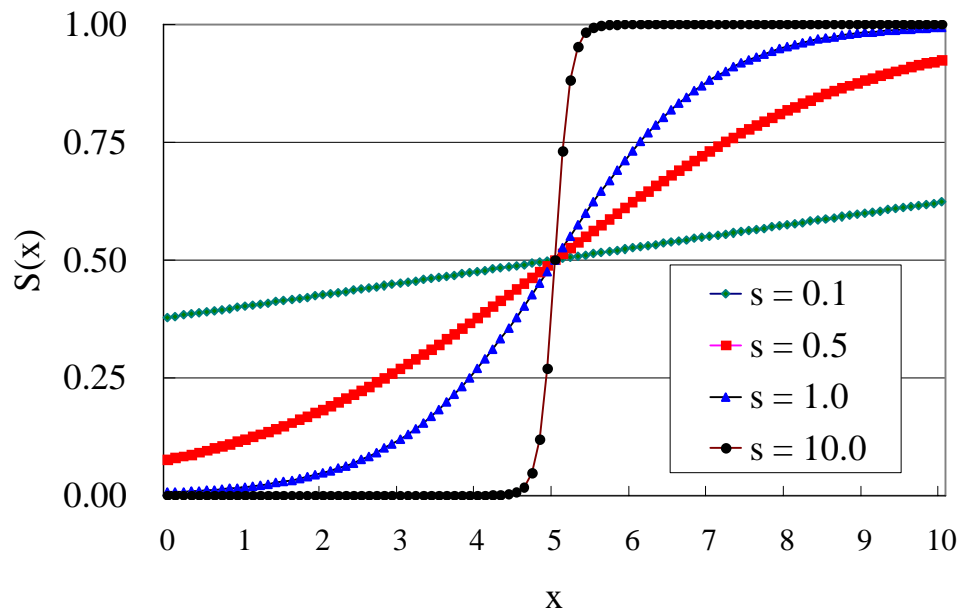# Supplemental Data

Figure S1. Plots of the $S(x)$ function (Equation (2) in the main text) at $h=5$. The plot of $s=0.5$ (red squares) was used in this study.
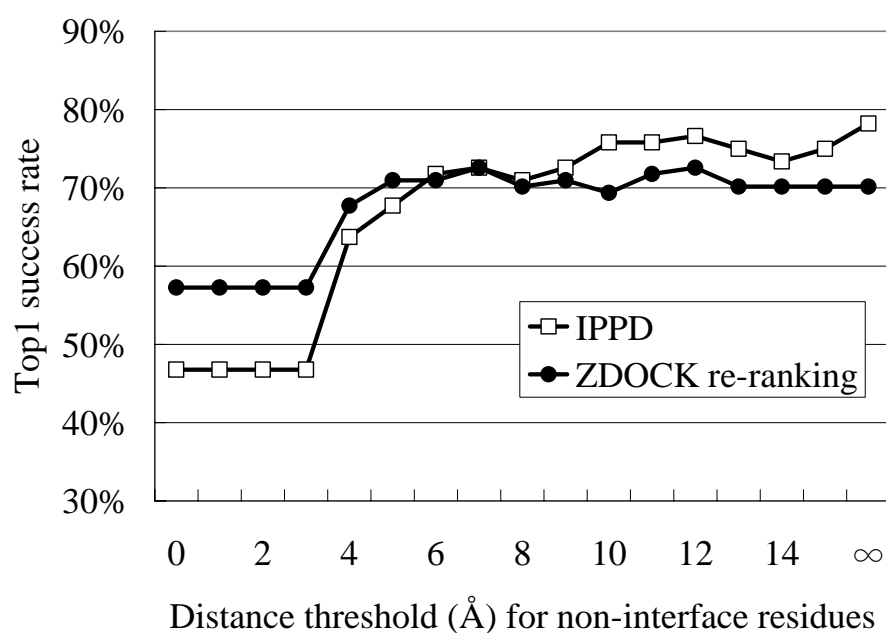
Figure S2. Top1 success rates for 124 benchmark complexes of IPPD and ZDOCK re-ranking using unbound structures with information of all interface residues and various amount of non-interface residues as determined by a distance threshold from interface residues. Any surface residue not assigned to be an interface residue was defined as a non-interface residue if the distance between its Cα atom and the Cα atom of any interface residues was less than the distance threshold. ∞ indicates all surface residues that were not interface residues were defined as non-interface residues. All simulations in the main text used the ∞ threshold for non-interface residues.