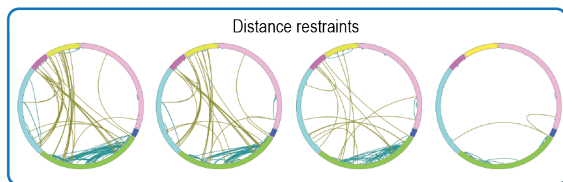


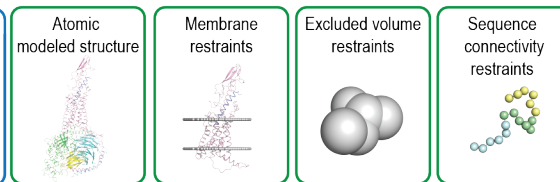
Residue-specific chemical cross-linking

BS3 cross-links 188 intralinks 40 interlinks	DSG cross-links 168 intralinks 35 interlinks	EDC cross-links 111 intralinks 15 interlink	KArGO cross-links 38 intralinks 2 interlinks
--	--	---	--

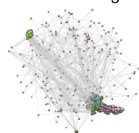


Statistical inferences, physical principles and prior models

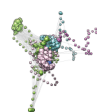
cryo-EM structure Glp-1, Glp-1R, G _α , G _β , G _γ , NB	Membrane protein Glp-1R	Steric effect All 6 proteins	Sequence connectivity All 6 proteins
--	----------------------------	---------------------------------	---



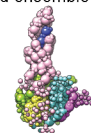
Initial random configurations



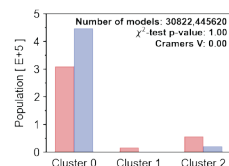
Replica exchange Monte Carlo Gibbs sampling



Optimized ensemble of models



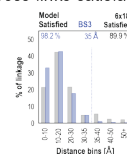
Estimating ensemble precision



Generating localization probability densities



Assessing chemical cross-links satisfaction



Validating interface residue contacts by signaling assays

