

Summary of integrative structure determination of Integrative structure of the human WDR76-SPIN1-Nucleosome complex (PDB ID: 9A8I | [pdb_00009a8i](#), PDB-Dev ID: PDBDEV_00000382)

1. Model Composition	
1.1. Entry composition	- WD repeat-containing protein 76: chain(s) A (626 residues) - Spindlin-1: chain(s) B (262 residues) - Histone H2A type 1: chain(s) C (130 residues) - Histone H2A type 1: chain(s) D (130 residues) - Histone H2B type 1-C/E/F/G/I: chain(s) E (126 residues) - Histone H2B type 1-C/E/F/G/I: chain(s) F (126 residues) - Histone H3.1: chain(s) G, H (136 residues) - Histone H4 : chain(s) I (103 residues) - Histone H4 : chain(s) J (103 residues)
1.2. Datasets used for modeling	- De Novo model, AlphaFoldDB: AF-Q9H967-F1 - Experimental model, PDB: pdb_00004h75 - Experimental model, PDB: pdb_00005gt0 - Crosslinking-MS data, Zenodo: 10.5281/zenodo.11044599 - Crosslinking-MS data, Zenodo: 10.5281/zenodo.11044599
2. Representation	
2.1. Number of representations	1
2.2. Scale	Multiscale: Coarse-grained: 1 - 20 residue(s) per bead
2.3. Number of rigid and flexible segments	11, 21
3. Restraints	
3.1. Physical principles	Information about physical principles was not provided
3.2. Experimental data	- 1 unique CrossLinkRestrict: DSSO, 76 crosslinks - 1 unique CrossLinkRestrict: DSSO, 3 crosslinks
4. Validation	
4.2. Number of ensembles	1
4.3. Number of models in ensembles	27314
4.4. Number of deposited models	1
4.5. Model precision	24.00, Å
4.6. Data quality	Data quality has not been assessed
4.7. Model quality: assessment of excluded volume	Satisfaction: 99.65%

<i>4.8. Fit to data used for modeling</i>	Satisfaction of crosslinks: 14.10%
<i>4.9. Fit to data used for validation</i>	Fit of model to information not used to compute it has not been determined
5. Methodology and Software	
1. <i>5.1. Method name</i>	Sampling
<i>5.2. Method type</i>	Replica exchange monte carlo
<i>5.4. Number of computed models</i>	750000
<i>5.5. Software</i>	- IMP PMI module (version 2.16.0) - Integrative Modeling Platform (IMP) (version 2.16.0)