

Summary of integrative structure determination of A structural model of the endogenous human SWI/SNF (BAF) complex bound to the nucleosome informs disease mechanisms (PDB ID: 9A0K | pdb_00009a0k, PDB-Dev ID: PDBDEV_00000056)

1. Model Composition	
1.1. Entry composition	- SMARCC1: chain(s) 1 (1105 residues) - SMARCC2: chain(s) 2 (1214 residues) - SMARCA4: chain(s) 4 (1647 residues) - ACTL6A: chain(s) 6 (429 residues) - ARID1A: chain(s) A (2285 residues) - ACTB: chain(s) B (375 residues) - SMARCD1: chain(s) D (515 residues) - SMARCE1: chain(s) E (411 residues) - DPF2: chain(s) P (391 residues) - H2A: chain(s) V, v (130 residues) - H2B: chain(s) W, w (126 residues) - H3: chain(s) X, x (136 residues) - H4: chain(s) Y, y (103 residues) - SMARCB1: chain(s) b (385 residues) - 601 dna fwd: chain(s) p (196 residues) - 601 dna rev: chain(s) q (196 residues)

<i>1.2. Datasets used for modeling</i>	- 3DEM volume, Zenodo: 10.5281/zenodo.3998811 - Crosslinking-MS data, PRIDE: PXD020992 - Comparative model, Zenodo: 10.5281/zenodo.3998811 - Comparative model, Zenodo: 10.5281/zenodo.3998811 - Comparative model, Zenodo: 10.5281/zenodo.3998811 - Comparative model, Zenodo: 10.5281/zenodo.3998811 - Comparative model, Zenodo: 10.5281/zenodo.3998811 - Comparative model, Zenodo: 10.5281/zenodo.3998811 - Comparative model, Zenodo: 10.5281/zenodo.3998811 - Comparative model, Zenodo: 10.5281/zenodo.3998811 - Comparative model, Zenodo: 10.5281/zenodo.3998811 - Comparative model, Zenodo: 10.5281/zenodo.3998811 - Comparative model, Zenodo: 10.5281/zenodo.3998811 - Comparative model, Zenodo: 10.5281/zenodo.3998811 - Comparative model, Zenodo: 10.5281/zenodo.3998811 - Comparative model, Zenodo: 10.5281/zenodo.3998811 - Comparative model, Zenodo: 10.5281/zenodo.3998811 - Comparative model, Zenodo: 10.5281/zenodo.3998811 - Comparative model, Zenodo: 10.5281/zenodo.3998811 - Comparative model, Zenodo: 10.5281/zenodo.3998811 - De Novo model, Zenodo: 10.5281/zenodo.3998811 - De Novo model, Zenodo: 10.5281/zenodo.3998811 - Experimental model, PDB: pdb_00006uxv - Experimental model, PDB: pdb_00006uxv - Experimental model, PDB: pdb_00006uch - Experimental model, PDB: pdb_00006uxv - Experimental model, PDB: pdb_00005x0y - Experimental model, PDB: pdb_00005x0y - Experimental model, PDB: pdb_00005x0y - Experimental model, PDB: pdb_00006uxv - Experimental model, PDB: pdb_00005x0y - Experimental model, PDB: pdb_00005x0y - Experimental model, PDB: pdb_00006uxv - Experimental model, PDB: pdb_00004i6m - Experimental model, PDB: pdb_00005x0y - Experimental model, PDB: pdb_00006uxv - Experimental model, PDB: pdb_00004i6m - Experimental model, PDB: pdb_00005x0y - Experimental model, PDB: pdb_00005x0y - Experimental model, PDB: pdb_00006uxv - Experimental model, PDB: pdb_00005x0y - Experimental model, PDB: pdb_00005x0y - Experimental model, PDB: pdb_00004i6m - Experimental model, PDB: pdb_00005x0y - 3DEM volume, EMDB: EMD-22476 - 3DEM volume, EMDB: EMD-22478
2. Representation	
<i>2.1. Number of representations</i>	1
<i>2.2. Scale</i>	Atomic
<i>2.3. Number of rigid and flexible segments</i>	23, 0
3. Restraints	

3.1. Physical principles	Information about physical principles was not provided
3.2. Experimental data	- 1 unique CrossLinkRestraint: BS3, 1261 crosslinks - 1 unique EM3DRestraint: None
4. Validation	
4.2. Number of ensembles	0
4.3. Number of models in ensembles	Not applicable
4.4. Number of deposited models	1
4.5. Model precision	Not available
4.6. Data quality	- EMD-22476: resolution is 7.80 Å - EMD-22478: resolution is 6.20 Å
4.7. Model quality: assessment of atomic segments	- Clashscore: 0.00 - Ramachandran outliers: 27 - Sidechain outliers: 10
4.8. Fit to data used for modeling	- Satisfaction of crosslinks: 58.13% - 3DEM q-score(s): -0.00-0.03 - 3DEM atom inclusion score(s): 0.09-0.36
4.9. Fit to data used for validation	Fit of model to information not used to compute it has not been determined
5. Methodology and Software	
1. 5.1. Method name	Production sampling
5.2. Method type	Monte Carlo
2. 5.1. Method name	trRosetta
5.2. Method type	trRosetta
3. 5.1. Method name	Rosetta Hybridize
5.2. Method type	Rosetta Hybridize
5.5. Software	- Rosetta (version Rosetta version unknown:ff8ee24ee5f65423d5064cba818ede41d012fa87 2020-08-10 10:39:53 -0700 from git@github.com:RosettaCommons/main.git) - trRosetta (version 1.0.0) - HHpred (version website)