

**Summary of integrative structure determination of Implications of a multiscale structure of the yeast Nuclear Pore Complex (PDB ID: 9A3S, PDB-Dev ID: PDBDEV\_00000213)**

<b>1. Model Composition</b>	
<a href="#">Entry composition</a>	<ul style="list-style-type: none"> <li>- Nucleoporin POM34: Chain C (299 residues)</li> <li>- Nucleoporin POM152: Chain A (1337 residues)</li> <li>- Nucleoporin POM152: Chain B (1337 residues)</li> <li>- Nucleoporin POM34: Chain D (299 residues)</li> </ul>
<a href="#">Datasets used for modeling</a>	<ul style="list-style-type: none"> <li>- 3DEM volume, File: 10.5281/zenodo.8226857</li> <li>- Crosslinking-MS data, Linker name and number of cross-links: DSSO, 36 cross-links</li> <li>- De Novo model, AlphaFoldDB: AF-P39685-F1</li> <li>- De Novo model, AlphaFoldDB: AF-Q12445-F1</li> <li>- 3DEM volume, EMDB: EMD-41117</li> </ul>
<b>2. Representation</b>	
<a href="#">Resolution</a>	Coarse-grained: 1, 4, 6, 7, 19, 22, 36, 52 residue(s) per bead
<a href="#">Number of rigid bodies, flexible units</a>	16, 20
<a href="#">Rigid bodies</a>	<ul style="list-style-type: none"> <li>- A: 105-130, 144-167, 176-192, 200-212</li> <li>- B: 105-130, 144-167, 176-192, 200-212</li> <li>- C: 44-86, 89-110, 122-150, 222-237</li> <li>- D: 44-86, 89-110, 122-150, 222-237</li> </ul>
<a href="#">Flexible units</a>	<ul style="list-style-type: none"> <li>- A: 1-104, 131-143, 168-175, 193-199, 213-250</li> <li>- B: 1-104, 131-143, 168-175, 193-199, 213-250</li> <li>- C: 1-43, 87-88, 111-121, 151-221, 238-250</li> <li>- D: 1-43, 87-88, 111-121, 151-221, 238-250</li> </ul>
<a href="#">Structural coverage (rigid bodies)</a>	38%
<b>3. Restraints</b>	
<a href="#">Physical principles</a>	Information about physical principles was not provided
<a href="#">Experimental data</a>	<ul style="list-style-type: none"> <li>- 1 unique EM3DRestraint: DSSO, 36 cross-links</li> <li>- 1 unique GeometricRestraint: Gaussian mixture models</li> </ul>
<b>4. Validation</b>	
<a href="#">Number of ensembles</a>	1
<a href="#">Number of models in ensembles</a>	11
<a href="#">Number of deposited models</a>	11
<a href="#">Model precision (uncertainty of models)</a>	9.52, Å

<a href="#"><i>Data quality</i></a>	Data quality has not been assessed
<a href="#"><i>Model quality: assessment of excluded volume</i></a>	Satisfaction: 99.53-99.54%
<a href="#"><i>Fit to data used for modeling</i></a>	Fit of model to information used to compute it has not been determined
<a href="#"><i>Fit to data used for validation</i></a>	Fit of model to information not used to compute it has not been determined
<b>5. Methodology and Software</b>	
<i>1. Method</i>	Sampling
<a href="#"><i>Name</i></a>	Replica exchange monte carlo
<a href="#"><i>Number of computed models</i></a>	6400000
<a href="#"><i>Software</i></a>	<ul style="list-style-type: none"> <li>- <a href="#">AlphaFold2</a> (version Not available)</li> <li>- <a href="#">IMP PMI module</a> (version 20230908.develop.a93cf91143)</li> <li>- <a href="#">Integrative Modeling Platform (IMP)</a> (version 20230908.develop.a93cf91143)</li> </ul>