

Summary of integrative structure determination of Integrative model of the nuclear pore complex in constricted conformation from *Schizosaccharomyces pombe* (PDB ID: 9A1O | pdb_00009a1o, PDB-Dev ID: PDBDEV_00000096)

1. Model Composition	
1.1. Entry composition	- Nup184: chain(s) B, B1, B2, B3, B4, B5, B6, B7, B8, B9, B10, B11, B12, B13, B14, B15 (1564 residues) - Nup186: chain(s) C, C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15 (1647 residues) - Nup155: chain(s) D, D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, D11, D12, D13, D14, D15, D16, D17, D18, D19, D20, D21, D22, D23, D24, D25, D26, D27, D28, D29, D30, D31 (1315 residues) - Nup44: chain(s) H, H1, H2, H3, H4, H5, H6, H7, H8, H9, H10, H11, H12, H13, H14, H15, H16, H17, H18, H19, H20, H21, H22, H23, H24, H25, H26, H27, H28, H29, H30, H31 (403 residues) - Nup45: chain(s) I, I1, I2, I3, I4, I5, I6, I7, I8, I9, I10, I11, I12, I13, I14, I15, I16, I17, I18, I19, I20, I21, I22, I23, I24, I25, I26, I27, I28, I29, I30, I31 (425 residues) - Nsp1: chain(s) J, J1, J2, J3, J4, J5, J6, J7, J8, J9, J10, J11, J12, J13, J14, J15, J16, J17, J18, J19, J20, J21, J22, J23, J24, J25, J26, J27, J28, J29, J30, J31 (598 residues) - Nup107: chain(s) L, L1, L2, L3, L4, L5, L6, L7, L8, L9, L10, L11, L12, L13, L14, L15 (813 residues) - Nup189c: chain(s) M, M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23 (844 residues) - Sec13: chain(s) N, N1, N2, N3, N4, N5, N6, N7, N8, N9, N10, N11, N12, N13, N14, N15, N16, N17, N18, N19, N20, N21, N22, N23 (297 residues) - Seh1: chain(s) O, O1, O2, O3, O4, O5, O6, O7, O8, O9, O10, O11, O12, O13, O14, O15, O16, O17, O18, O19, O20, O21, O22, O23 (339 residues) - Nup85: chain(s) P, P1, P2, P3, P4, P5, P6, P7, P8, P9, P10, P11, P12, P13, P14, P15, P16, P17, P18, P19, P20, P21, P22, P23 (675 residues) - Nup132: chain(s) Q, Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q10, Q11, Q12, Q13, Q14, Q15 (1162 residues) - Nup120: chain(s) R, R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23 (1136 residues) - Nup37: chain(s) S, S1, S2, S3, S4, S5, S6, S7, S8, S9, S10, S11, S12, S13, S14, S15, S16, S17, S18, S19, S20, S21, S22, S23 (391 residues) - Ely5: chain(s) T, T1, T2, T3, T4, T5, T6, T7, T8, T9, T10, T11, T12, T13, T14, T15, T16, T17, T18, T19, T20, T21, T22, T23 (298 residues) - Nup97: chain(s) Y, Y1, Y2, Y3, Y4, Y5, Y6, Y7, Y8, Y9, Y10, Y11, Y12, Y13, Y14, Y15, Y16, Y17, Y18, Y19, Y20, Y21, Y22, Y23, Y24, Y25, Y26, Y27, Y28, Y29, Y30, Y31 (851 residues)
1.2. Datasets used for modeling	- 3DEM volume, EMDB: EMD-11375 - 3DEM volume, Zenodo: 10.5281/zenodo.5585949 - Integrative model, PDB: pdb_00009a1m - Other, Not available: https://doi.org/10.1038/nsmb1194 - Other, Not available: https://doi.org/10.1038/nature15381

2. Representation	
2.1. Number of representations	1
2.2. Scale	Atomic
2.3. Number of rigid and flexible segments	392, 0
3. Restraints	
3.1. Physical principles	Information about physical principles was not provided
3.2. Experimental data	
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-11375: resolution is 28.00 Å
4.7. Model quality: assessment of atomic segments	- Clashscore: 0.00 - Ramachandran outliers: 4824 - Sidechain outliers: 12723
4.8. Fit to data used for modeling	Fit of model to information used to compute it has not been determined
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	Modeling the full nuclear pore complex at constricted diameter based on the model of the pore with the normal diameter
5.2. Method type	Refinement optimization with Assembliner
5.5. Software	- Assembliner (version 0.99beta) - Integrative Modeling Platform (IMP) (version 2.15.0) - UCSF Chimera (version 1.14)