Summary of integrative structure determination of Integrative structure of the epithelial desmosomal outer plaque (PDB ID: 9A8U | pdb_00009a8u)

1. Model Composition	
1.1. Entry composition	- Plakophilin-1: chain(s) A, B, C, D (726 residues) - Plakophilin-1: chain(s) E, F, G (726 residues) - Junction plakoglobin: chain(s) H, I, J, K (745 residues) - Desmoplakin: chain(s) L, M, N, O (584 residues) - Desmocollin-1: chain(s) P, Q (180 residues) - Desmoglein-1: chain(s) R, S (273 residues)
1.2. Datasets used for modeling	- 3DEM volume, EMDB: EMD-1703 - Other, Not available: 10.1242/jcs.112.23.4325 - Experimental model, PDB: pdb_00003ifq - Comparative model, Zenodo: 10.5281/zenodo.8035862 - Comparative model, Zenodo: 10.5281/zenodo.8035862 - Yeast two-hybrid screening data, Not available: 10.1242/jcs.112.23.4325 - Other, Not available: 10.1242/jcs.112.23.4325 - Experimental model, PDB: pdb_00001xm9 - Experimental model, PDB: pdb_00003r6n
2. Representation	
2.1. Number of representations	1
2.2. Scale	Multiscale: Coarse-grained: 1 - 30 residue(s) per bead
2.3. Number of rigid and flexible segments	9, 16
3. Restraints	
3.1. Physical principles	Information about physical principles was not provided
3.2. Experimental data	- 1 unique EM3DRestraint: Gaussian mixture models
4. Validation	
4.2. Number of ensembles	1
4.3. Number of models in ensembles	24866
4.4. Number of deposited models	1
4.5. Model precision	67.00, Å
4.6. Data quality	EMD-1703: resolution is 32.00 Å
4.7. Model quality: assessment of excluded volume	Satisfaction: 99.49%
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	Sampling
5.2. Method type	Replica exchange monte carlo
5.4. Number of computed models	2250000
5.5. Software	- IMP PMI module (version 2.17.0) - Integrative Modeling Platform (IMP) (version 2.17.0)