

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

<b>1. Model Composition</b>	
<a href="#">Entry composition</a>	<ul style="list-style-type: none"> <li>- Plakophilin-1: Chain C (726 residues)</li> <li>- Junction plakoglobin: Chain H (745 residues)</li> <li>- Desmocollin-1: Chain P (180 residues)</li> <li>- Desmoglein-1: Chain R (273 residues)</li> <li>- Plakophilin-1: Chain G (726 residues)</li> <li>- Plakophilin-1: Chain A (726 residues)</li> <li>- Junction plakoglobin: Chain I (745 residues)</li> <li>- Desmoglein-1: Chain S (273 residues)</li> <li>- Junction plakoglobin: Chain K (745 residues)</li> <li>- Plakophilin-1: Chain F (726 residues)</li> <li>- Plakophilin-1: Chain D (726 residues)</li> <li>- Desmoplakin: Chain N (584 residues)</li> <li>- Junction plakoglobin: Chain J (745 residues)</li> <li>- Plakophilin-1: Chain B (726 residues)</li> <li>- Desmoplakin: Chain M (584 residues)</li> <li>- Plakophilin-1: Chain E (726 residues)</li> <li>- Desmoplakin: Chain O (584 residues)</li> <li>- Desmoplakin: Chain L (584 residues)</li> <li>- Desmocollin-1: Chain Q (180 residues)</li> </ul>
<a href="#">Datasets used for modeling</a>	<ul style="list-style-type: none"> <li>- 3DEM volume, EMDB: EMD-1703</li> <li>- Other, File: 10.1242/jcs.112.23.4325</li> <li>- Comparative model, template PDB ID: Not available</li> <li>- Comparative model, template PDB ID: Not available</li> <li>- Yeast two-hybrid screening data, File: 10.1242/jcs.112.23.4325</li> <li>- Other, File: 10.1242/jcs.112.23.4325</li> <li>- Experimental model, PDB ID: 3IFQ</li> <li>- Experimental model, PDB ID: 1XM9</li> <li>- Experimental model, PDB ID: 3R6N</li> </ul>
<b>2. Representation</b>	
<a href="#">Resolution</a>	Coarse-grained: 3, 5, 7, 9, 14, 23, 31, 33 residue(s) per bead
<a href="#">Number of rigid bodies, flexible units</a>	9, 16

<i>Rigid bodies</i>	<ul style="list-style-type: none"> <li>- A: -</li> <li>- B: -</li> <li>- C: -</li> <li>- D: -</li> <li>- E: 244-387, 397-480, 509-700</li> <li>- F: 244-387, 397-480, 509-700</li> <li>- G: 244-387, 397-480, 509-700</li> <li>- H: -</li> <li>- I: -</li> <li>- J: -</li> <li>- K: -</li> <li>- L: -</li> <li>- M: -</li> <li>- N: -</li> <li>- O: -</li> <li>- P: -</li> <li>- Q: -</li> <li>- R: -</li> <li>- S: -</li> </ul>
<i>Flexible units</i>	<ul style="list-style-type: none"> <li>- A: 1-726</li> <li>- B: 1-726</li> <li>- C: 1-726</li> <li>- D: 1-726</li> <li>- E: -</li> <li>- F: -</li> <li>- G: -</li> <li>- H: 1-745</li> <li>- I: 1-745</li> <li>- J: 1-745</li> <li>- K: 1-745</li> <li>- L: 1-584</li> <li>- M: 1-584</li> <li>- N: 1-584</li> <li>- O: 1-584</li> <li>- P: 1-180</li> <li>- Q: 1-180</li> <li>- R: 1-273</li> <li>- S: 1-273</li> </ul>
<i>Structural coverage (rigid bodies)</i>	12%
<b>3. Restraints</b>	
<i>Physical principles</i>	Information about physical principles was not provided
<i>Experimental data</i>	- 1 unique EM3DRestraint: Gaussian mixture models
<b>4. Validation</b>	
<i>Number of ensembles</i>	1
<i>Number of models in ensembles</i>	24866
<i>Number of deposited models</i>	1
<i>Model precision (uncertainty of models)</i>	67.0, 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: 99.49-99.49%
<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>	2250000
<a href="#"><i>Software</i></a>	- <a href="#">IMP PMI module</a> (version 2.17.0) - <a href="#">Integrative Modeling Platform (IMP)</a> (version 2.17.0)