

**Summary of integrative structure determination of Modeling of the interaction between doublecortin and microtubule, NDCs fixed at diagonal (#1) orientation (PDB ID: 9A0Z, PDB-Dev ID: PDBDEV\_00000071)**

<b>1. Model Composition</b>	
<a href="#">Entry composition</a>	<ul style="list-style-type: none"> <li>- Doublecortin: chain(s) A, B (365 residues)</li> <li>- Alpha-Tubulin: chain(s) C, D, E, F, G, H, I, J, K (451 residues)</li> <li>- Beta-Tubulin: chain(s) L, M, N, O, P, Q, R, S, T (445 residues)</li> </ul>
<a href="#">Datasets used for modeling</a>	<ul style="list-style-type: none"> <li>- Experimental model, PDB: <a href="#">4ATU</a></li> <li>- Experimental model, PDB: <a href="#">6FNZ</a></li> <li>- Experimental model, PDB: <a href="#">6EVZ</a></li> <li>- Crosslinking-MS data, Zenodo: <a href="#">10.5281/zenodo.4526498</a></li> </ul>
<b>2. Representation</b>	
<a href="#">Number of representations</a>	1
<a href="#">Scale</a>	Multiscale: Coarse-grained: 1 - 10 residue(s) per bead
<a href="#">Number of <i>rigid</i> and <i>flexible</i> segments</a>	40, 4
<b>3. Restraints</b>	
<a href="#">Physical principles</a>	Information about physical principles was not provided
<a href="#">Experimental data</a>	- 1 unique CrossLinkRestraint: LCSDA, 445 crosslinks
<b>4. Validation</b>	
<a href="#">Number of ensembles</a>	1
<a href="#">Number of models in ensembles</a>	30000
<a href="#">Number of deposited models</a>	1
<a href="#">Model precision (uncertainty of models)</a>	Not available
<a href="#">Data quality</a>	Data quality has not been assessed
<a href="#">Model quality: assessment of excluded volume</a>	Satisfaction: 99.94%
<a href="#">Fit to data used for modeling</a>	Satisfaction of crosslinks: 22.95%
<a href="#">Fit to data used for validation</a>	Fit of model to information not used to compute it has not been determined

<b>5. Methodology and Software</b>	
1. <a href="#"><i>Name</i></a>	Sampling
<a href="#"><i>Method</i></a>	Replica exchange monte carlo
<a href="#"><i>Number of computed models</i></a>	240000
<a href="#"><i>Software</i></a>	<ul style="list-style-type: none"><li>- <a href="#">IMP PMI module</a> (version 2.14.0)</li><li>- <a href="#">Integrative Modeling Platform (IMP)</a> (version 2.14.0)</li></ul>