

**Summary of integrative structure determination of Complex of UbcH5c, RNF168-RING domain and the nucleosome (PDB ID: 8ZZT, PDB-Dev ID: PDBDEV\_0000029)**

<b>1. Model Composition</b>	
<a href="#">Entry composition</a>	<ul style="list-style-type: none"> <li>- H2B S121A mutant: Chain H (95 residues)</li> <li>- H4: Chain B (80 residues)</li> <li>- H2A N18S mutant: Chain G (107 residues)</li> <li>- RNF168 RING domain: Chain K (91 residues)</li> <li>- H4: Chain F (80 residues)</li> <li>- H2A N18S mutant: Chain C (107 residues)</li> <li>- UbcH5c: Chain L (153 residues)</li> <li>- H3: Chain E (99 residues)</li> <li>- H2B S121A mutant: Chain D (95 residues)</li> <li>- H3: Chain A (99 residues)</li> <li>- DNA strand 1: Chain I (147 residues)</li> <li>- DNA strand 2: Chain J (147 residues)</li> </ul>
<a href="#">Datasets used for modeling</a>	<ul style="list-style-type: none"> <li>- Integrative model, PDB-Dev: PDBDEV_0000028</li> <li>- Experimental model, PDB ID: 1X23</li> <li>- Other, File: 10.1038/s41467-019-09756-z</li> </ul>
<b>2. Representation</b>	
<a href="#">Resolution</a>	Atomic
<a href="#">Number of rigid bodies, flexible units</a>	0, 12
<a href="#">Flexible units</a>	<ul style="list-style-type: none"> <li>- A: 1-99</li> <li>- B: 1-80</li> <li>- C: 1-107</li> <li>- D: 1-95</li> <li>- E: 1-99</li> <li>- F: 1-80</li> <li>- G: 1-107</li> <li>- H: 1-95</li> <li>- I: 1-147</li> <li>- J: 1-147</li> <li>- K: 1-91</li> <li>- L: 1-153</li> </ul>
<a href="#">Structural coverage (rigid bodies)</a>	100%
<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>- 12 unique DerivedDistanceRestraint: Upper Bound Distance: 2.0</li> <li>- 1 unique DerivedDistanceRestraint: Upper Bound Distance: 2.5</li> <li>- 1 unique DerivedDistanceRestraint: Upper Bound Distance: 4.0</li> <li>- 2 unique DerivedDistanceRestraint: Upper Bound Distance: 9.0</li> </ul>

<b>4. Validation</b>	
<a href="#">Number of ensembles</a>	0
<a href="#">Number of models in ensembles</a>	Not applicable
<a href="#">Number of deposited models</a>	10
<a href="#">Model precision (uncertainty of models)</a>	Model precision can not be calculated with one structure
<a href="#">Data quality</a>	Data quality has not been assessed
<a href="#">Model quality: assessment of atomic segments</a>	<ul style="list-style-type: none"> <li>- Model-1: Clashscore = 0.0, Number of Ramachandran outliers = 5, Number of sidechain outliers = 51</li> <li>- Model-2: Clashscore = 0.0, Number of Ramachandran outliers = 7, Number of sidechain outliers = 54</li> <li>- Model-3: Clashscore = 0.0, Number of Ramachandran outliers = 6, Number of sidechain outliers = 60</li> <li>- Model-4: Clashscore = 0.0, Number of Ramachandran outliers = 5, Number of sidechain outliers = 54</li> <li>- Model-5: Clashscore = 0.0, Number of Ramachandran outliers = 4, Number of sidechain outliers = 51</li> <li>- Model-6: Clashscore = 0.0, Number of Ramachandran outliers = 4, Number of sidechain outliers = 61</li> <li>- Model-7: Clashscore = 0.0, Number of Ramachandran outliers = 3, Number of sidechain outliers = 49</li> <li>- Model-8: Clashscore = 0.0, Number of Ramachandran outliers = 6, Number of sidechain outliers = 55</li> <li>- Model-9: Clashscore = 0.0, Number of Ramachandran outliers = 5, Number of sidechain outliers = 57</li> <li>- Model-10: Clashscore = 0.0, Number of Ramachandran outliers = 9, Number of sidechain outliers = 41</li> </ul>
<a href="#">Model quality: assessment of excluded volume</a>	Not applicable
<a href="#">Fit to data used for modeling</a>	Fit of model to information used to compute it has not been determined
<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="#">Method</a>	None
<a href="#">Name</a>	None

[Software](#)

[HADDOCK](#) (version 2.2)