# HADDOCK 2.4

## @Bonvinlab

WELCOME TO THE UTRECHT BIOMOLECULAR INTERACTION WEB PORTAL >>

### **HADDOCK server status for job "cford\_TCR**csp-8"

#### Status: FINISHED

Your HADDOCK run has successfully completed. The complete run can be downloaded as a gzipped tar file here. The file containing your docking parameters is here.

Please cite the following paper in your work:

G.C.P van Zundert, J.P.G.L.M. Rodrigues, M. Trellet, C. Schmitz, P.L. Kastritis, E. Karaca, A.S.J. Melquiond, M. van Dijk, S.J. de Vries and A.M.J.J. Bonvin (2016). "The HADDOCK2.2 webserver: User-friendly integrative modeling of biomolecular complexes

J. Mol. Biol., 428, 720-725 (2015).

and add the following acknowledgment:

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How would you rate your experience with our portal?









Questions / feedback ? ask.bioexcel.eu

Do check up the HADDOCK best practice guide! There you can learn more about which settings are best used in which scenario and use HADDOCK in its full potential!

In the aim to improve our new web portal, we would really appreciate 2 min of your time to complete a short survey here! Thanks!

#### Post-processing: SUCCESS

#### Summary

HADDOCK clustered 183 structures in 8 cluster(s), which represents 91 % of the water-refined models HADDOCK generated. Note that currently the maximum number of models considered for clustering is 200.

The statistics of the top 10 clusters are shown below. The top cluster is the most reliable according to HADDOCK. Its Z-score indicates how many standard deviations from the average this cluster is located in terms of score (the more negative the better).

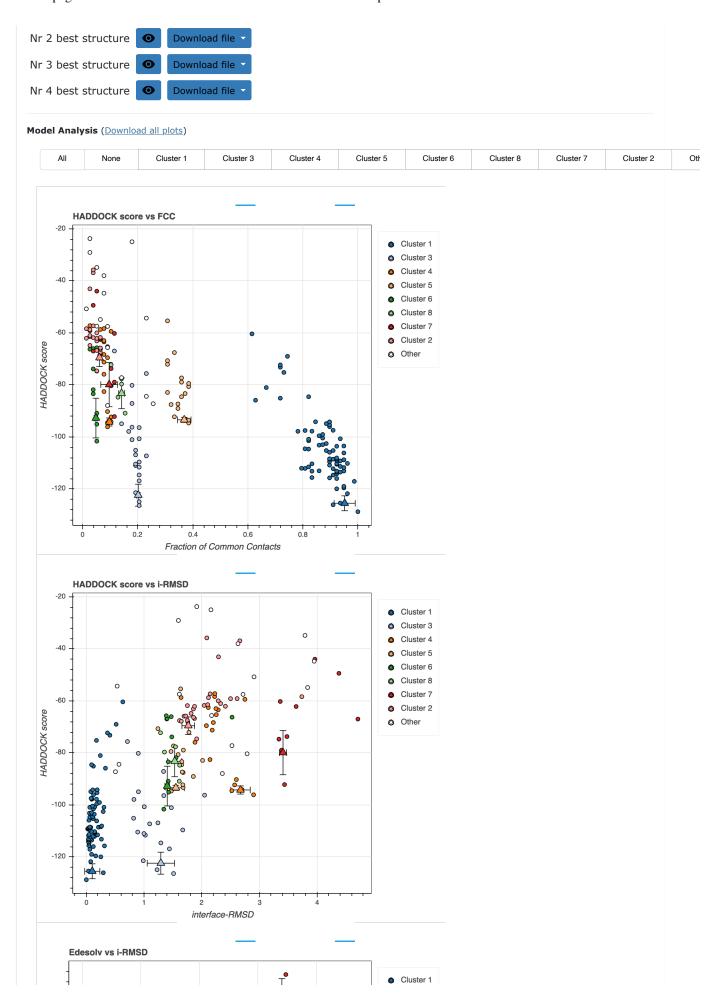
A graphical representation of the results is also provided at the bottom of the page.

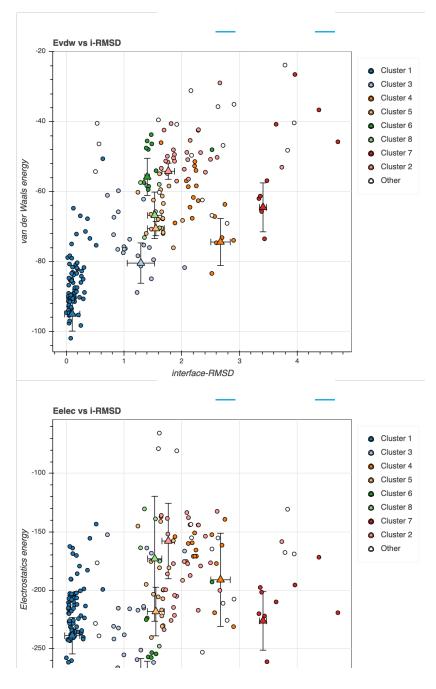
You can also download all cluster files (best 4 of the top 10 cluster(s)).

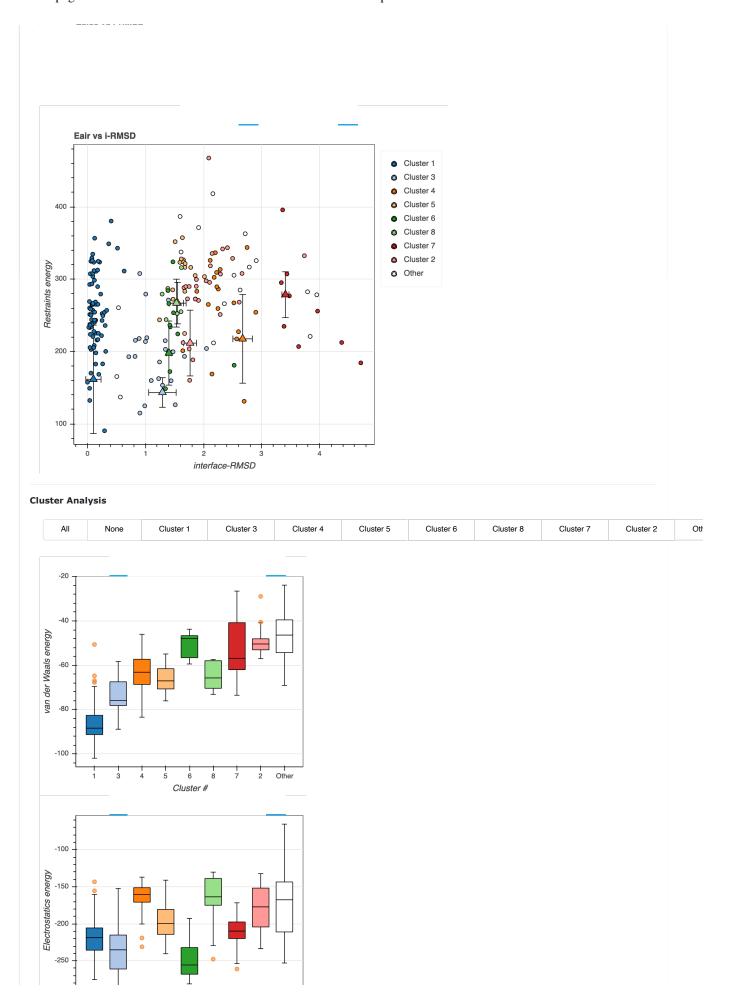
Cluster 1	
HADDOCK score	-125.5 +/- 2.5
Cluster size	76
RMSD from the overall lowest-energy structure	0.6 +/- 0.4
Van der Waals energy	-95.0 +/- 4.2
Electrostatic energy	-238.8 +/- 13.5
Desolvation energy	1.1 +/- 2.0
Restraints violation energy	161.6 +/- 64.9
Buried Surface Area	2252.7 +/- 62.9
Z-Score	-1.7
Nr 1 best structure	Download file 🔻 🚨
Nr 2 best structure	Download file 🔻
Nr 3 best structure	Download file 🔻
Nr 4 best structure	Download file 🔻
Cluster 3	
HADDOCK score	-122.4 +/- 3.7
Cluster size	22
RMSD from the overall lowest-energy structure	8.6 +/- 0.4
Van der Waals energy	-80.5 +/- 5.0
Electrostatic energy	-273.6 +/- 13.4
Desolvation energy	-1.5 +/- 3.3
Restraints violation energy	143.4 +/- 17.7
Buried Surface Area	2205.9 +/- 43.9
Z-Score	-1.5
Nr 1 best structure	Download file 🔻 🔯
Nr 2 best structure	Download file •
Nr 3 best structure	Download file 🔻
Nr 4 best structure	Download file 🔻
Cluster 4	
HADDOCK score	-94.2 +/- 1.3
Cluster size	18
RMSD from the overall lowest-energy structure	19.3 +/- 0.7
Van der Waals energy	-74.4 +/- 5.8
Electrostatic energy	-191.0 +/- 34.5
Desolvation energy	-3.4 +/- 2.4
Restraints violation energy	217.6 +/- 53.1
Buried Surface Area	2165.6 +/- 82.8

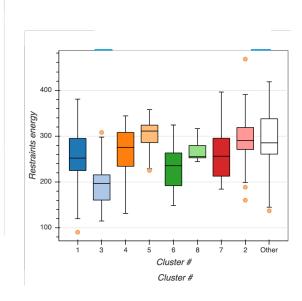
HADDOCK score	Z-Score	0.0
Nr 3 best structure  Download file   Nr 4 best structure  Download file   Cluster 5  HADDOCK score  Cluster size  18  RMSD from the overall lowest-energy structure  Download file   Nr 4 best structure  Download file   Download file   Nr 4 best structure  Download file   Download file   Nr 4 best structure  Download file   Nr 5.8 +/- 6.6  Cluster 6  HADDOCK score  Cluster 5.8 +/- 4.6  Electrostatic energy  Desolvation energy  Pessory at Cluster energy  Desolvation energy  Pessory at Cluster energy  Download file   Nr 1 best structure  Download file   Nr 2 best structure  Download file   Download file   Nr 3 best structure  Download file   Download file   Nr 4 best structure  Download file   Download file   Nr 4 best structure  Download file   Downloa	Nr 1 best structure	Download file 🔻 🔯
Cluster 5  HADDOCK score -93.4 +/- 0.8  Cluster size 18  RMSD from the overall lowest-energy structure  Var der Waals energy -70.6 +/- 1.8  Electrostatic energy -5.9 +/- 3.3  Restraints violation energy 266.9 +/- 24.8  Buried Surface Area 1888.7 +/- 59.9  Z-Score 0.1  Nr 1 best structure Download file Variable Structure Download file Variable	Nr 2 best structure	Download file 🔻
Cluster 5  HADDOCK score	Nr 3 best structure	Download file •
HADDOCK score  Cluster size  18  RMSD from the overall lowest-energy structure  Van der Waals energy  70.6 +/- 1.8  Electrostatic energy  -218.2 +/- 18.0  Desolvation energy  -5.9 +/- 3.3  Restraints violation energy  Buried Surface Area  1888.7 +/- 59.9  Z-Score  0.1  Nr 1 best structure  Download file  Nr 2 best structure  Download file  Nr 3 best structure  Download file  Nr 4 best structure  Download file   Cluster 6  HADDOCK score  Cluster 52  Cluster 92.7 +/- 6.6  Cluster size  10  RMSD from the overall lowest-energy structure  Van der Waals energy  -55.8 +/- 4.6  Electrostatic energy  -270.7 +/- 8.7  Desolvation energy  -270.7 +/- 8.7  Desolvation energy  197.9 +/- 38.4  Buried Surface Area  1705.8 +/- 36.0  Z-Score  0.1  Nr 1 best structure  Download file  Nr 2 best structure  Download file   Nr 1 best structure  Download file   Nr 2 best structure  Download file   Nr 3 best structure  Download file   Nr 4 best structure  Download file   Nr 5 best structure  Download file   Nr 6 best structure  Download file   Nr 7 best structure  Download file   Nr 6 best structure  Download file   Nr 7 best structure  Download file   Nr 6 best structure	Nr 4 best structure	Download file 🔻
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Buried Surface Area 1705.8 +/- 36.0  Z-Score 0.1  Nr 1 best structure Download file \times Do	Desolvation energy	-2.6 +/- 2.7
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Nr 2 best structure Download file  Nr 3 best structure Download file  Nr 4 best structure Download file  Cluster 8	Z-Score	0.1
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Nr 4 best structure Download file Cluster 8	Nr 2 best structure	Download file 🔻
Cluster 8	Nr 3 best structure	Download file 🔻
	Nr 4 best structure	Download file 🔻
HADDOCK score -83.2 +/- 5.1	Cluster 8	
	HADDOCK score	-83 2 +/- 5 1

Cluster size	5
RMSD from the overall lowest-energy structure	14.6 +/- 0.3
Van der Waals energy	-66.8 +/- 5.8
Electrostatic energy	-173.0 +/- 46.3
Desolvation energy	-8.5 +/- 2.2
Restraints violation energy	266.9 +/- 28.7
Buried Surface Area	2005.4 +/- 78.5
Z-Score	0.6
Nr 1 best structure	Download file 🔻 🖺
Nr 2 best structure	Download file 🔻
Nr 3 best structure	Download file 🔻
Nr 4 best structure	Download file 🔻
Cluster 7	
HADDOCK score	-79.9 +/- 7.4
Cluster size	9
RMSD from the overall lowest-energy structure	9.9 +/- 0.4
Van der Waals energy	-64.5 +/- 6.1
Electrostatic energy	-226.2 +/- 21.7
Desolvation energy	2.0 +/- 4.6
Restraints violation energy	·
Buried Surface Area	2001.3 +/- 113.2
Z-Score	0.8
Nr 1 best structure	Download file ▼
Nr 2 best structure	Download file 🔻
Nr 3 best structure	Download file 🔻
Nr 4 best structure	Download file 🔻
Cluster 2	
HADDOCK score	-69.5 +/- 2.9
Cluster size	25
RMSD from the overall lowest-energy structure	17.4 +/- 0.2
Van der Waals energy	-54.2 +/- 2.0
Electrostatic energy	-157.8 +/- 27.9
Desolvation energy	-5.0 +/- 2.3
Restraints violation energy	211.7 +/- 39.4
Buried Surface Area	1804.6 +/- 59.7
Z-Score	1.4
Nr 1 best structure	Download file









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