

HADDOCK 2.4

@Bonvinlab

WELCOME TO THE UTRECHT BIOMOLECULAR INTERACTION WEB PORTAL >>

HADDOCK server status for job "cford_TCR-csp-22"

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. Kastiris, E. Karaca, A.S.J. Melquiand, 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 **173** structures in **12** cluster(s), which represents **86 %** 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 2

HADDOCK score	-100.4 +/- 1.5
Cluster size	31
RMSD from the overall lowest-energy structure	16.4 +/- 0.9
Van der Waals energy	-69.6 +/- 6.2
Electrostatic energy	-281.2 +/- 33.9
Desolvation energy	2.7 +/- 3.3
Restraints violation energy	227.2 +/- 35.9
Buried Surface Area	2199.0 +/- 117.4
Z-Score	-1.6

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 1

HADDOCK score	-98.2 +/- 4.8
Cluster size	59
RMSD from the overall lowest-energy structure	0.8 +/- 0.6
Van der Waals energy	-73.3 +/- 4.5
Electrostatic energy	-227.4 +/- 4.1
Desolvation energy	-6.0 +/- 1.5
Restraints violation energy	265.7 +/- 34.6
Buried Surface Area	2080.1 +/- 84.7
Z-Score	-1.4


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Nr 4 best structure		Download file	

Cluster 3


HADDOCK score	-91.6 +/- 5.5
Cluster size	20
RMSD from the overall lowest-energy structure	8.2 +/- 0.5
Van der Waals energy	-71.8 +/- 6.0
Electrostatic energy	-233.6 +/- 19.6
Desolvation energy	0.3 +/- 2.8
Restraints violation energy	265.7 +/- 16.8
Buried Surface Area	2196.8 +/- 86.0


Z-Score -0.8

- Nr 1 best structure




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- Nr 2 best structure



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- Nr 3 best structure



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- Nr 4 best structure



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Cluster 9

HADDOCK score -90.4 +/- 5.8

Cluster size 5

RMSD from the overall lowest-energy structure 8.4 +/- 0.3

Van der Waals energy -72.3 +/- 6.9

Electrostatic energy -276.1 +/- 24.4


Desolvation energy 4.2 +/- 1.4

Restraints violation energy 328.9 +/- 65.6


Buried Surface Area 2354.0 +/- 70.6


Z-Score -0.7

- Nr 1 best structure




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- Nr 2 best structure



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- Nr 3 best structure



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- Nr 4 best structure



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Cluster 8

HADDOCK score -86.8 +/- 5.7

Cluster size 5

RMSD from the overall lowest-energy structure 15.3 +/- 0.1

Van der Waals energy -72.7 +/- 2.1

Electrostatic energy -196.1 +/- 18.1


Desolvation energy -0.7 +/- 1.0

Restraints violation energy 258.4 +/- 42.9


Buried Surface Area 2041.0 +/- 46.1


Z-Score -0.3

- Nr 1 best structure




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- Nr 2 best structure



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- Nr 3 best structure



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Cluster 10



HADDOCK score -76.1 +/- 1.2



Cluster size	5
RMSD from the overall lowest-energy structure	14.8 +/- 0.3
Van der Waals energy	-61.2 +/- 7.7
Electrostatic energy	-223.3 +/- 27.4
Desolvation energy	-1.0 +/- 1.5
Restraints violation energy	307.6 +/- 55.8
Buried Surface Area	2094.2 +/- 132.3
Z-Score	0.6


- Nr 1 best structure 

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- Nr 2 best structure 

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- Nr 3 best structure 


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Cluster 4



HADDOCK score	-74.7 +/- 2.9
Cluster size	15
RMSD from the overall lowest-energy structure	8.9 +/- 0.3
Van der Waals energy	-66.5 +/- 7.4
Electrostatic energy	-137.8 +/- 32.4
Desolvation energy	-6.2 +/- 2.3
Restraints violation energy	256.0 +/- 45.0
Buried Surface Area	2010.9 +/- 84.2
Z-Score	0.8


- Nr 1 best structure 

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- Nr 2 best structure 

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- Nr 3 best structure 

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Cluster 12

HADDOCK score	-72.5 +/- 11.9
Cluster size	4
RMSD from the overall lowest-energy structure	1.2 +/- 0.9
Van der Waals energy	-59.2 +/- 7.3
Electrostatic energy	-234.4 +/- 9.6
Desolvation energy	-1.1 +/- 4.2
Restraints violation energy	346.7 +/- 78.9
Buried Surface Area	1947.5 +/- 131.7
Z-Score	1.0

- Nr 1 best structure 

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- Nr 2 best structure

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- Nr 3 best structure

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Cluster 7

HADDOCK score	-71.6 +/- 5.3
Cluster size	6
RMSD from the overall lowest-energy structure	19.8 +/- 0.2
Van der Waals energy	-59.5 +/- 4.2
Electrostatic energy	-156.0 +/- 4.7
Desolvation energy	-0.4 +/- 3.5
Restraints violation energy	194.7 +/- 24.8
Buried Surface Area	1940.6 +/- 71.9
Z-Score	1.1

- Nr 1 best structure

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- Nr 2 best structure

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Cluster 5

HADDOCK score	-69.9 +/- 5.9
Cluster size	13
RMSD from the overall lowest-energy structure	13.6 +/- 0.3
Van der Waals energy	-61.8 +/- 3.9
Electrostatic energy	-157.6 +/- 37.6
Desolvation energy	-4.7 +/- 4.7
Restraints violation energy	280.6 +/- 53.1
Buried Surface Area	1987.3 +/- 122.4
Z-Score	1.2

- Nr 1 best structure

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- Nr 2 best structure

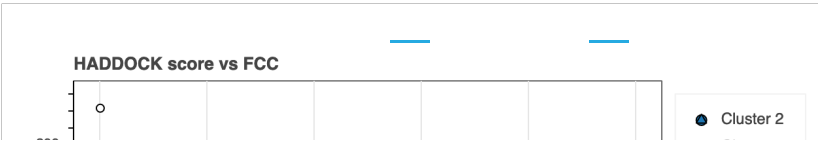
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- Nr 3 best structure

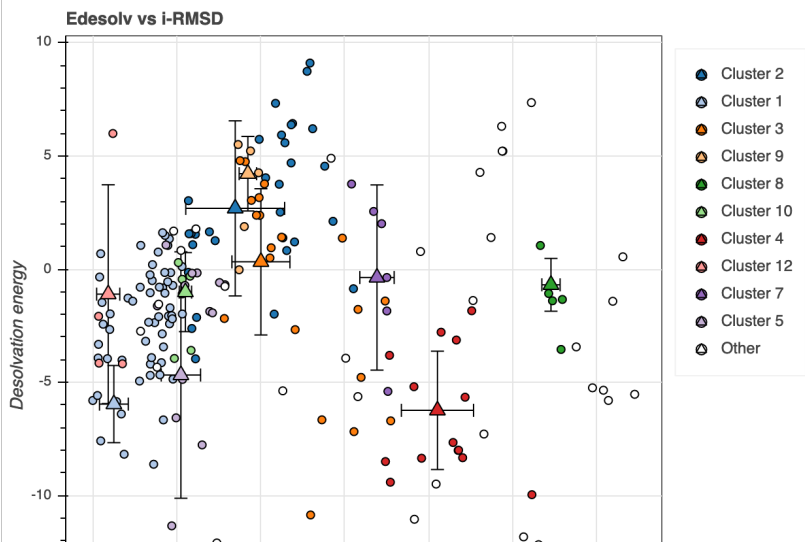
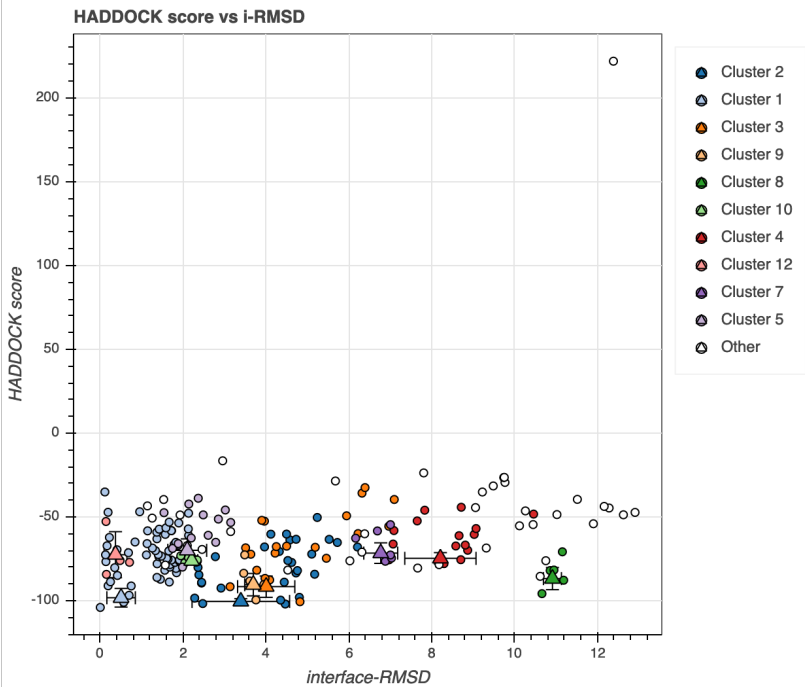
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- Nr 4 best structure

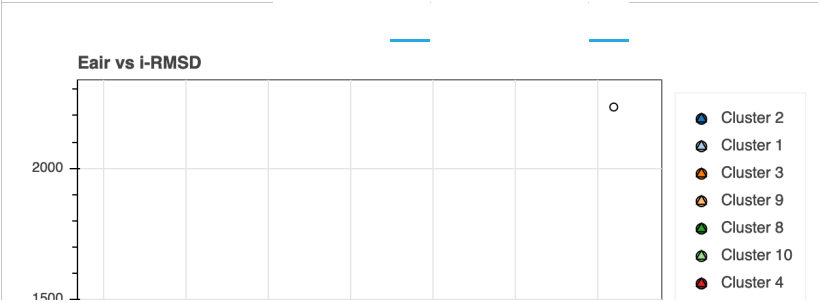
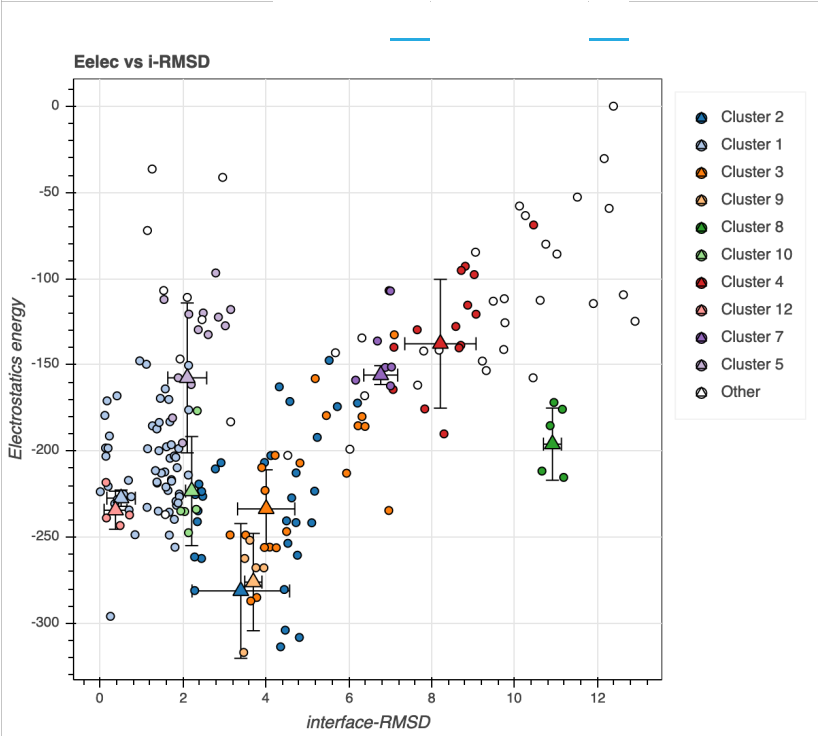
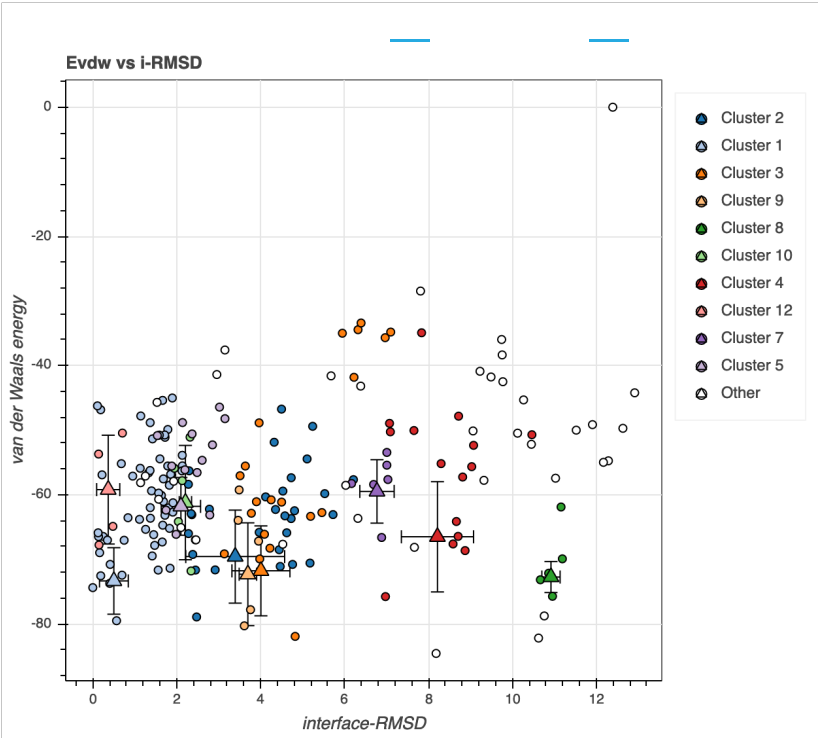
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Model Analysis [\(Download all plots\)](#)

All	None	Cluster 2	Cluster 1	Cluster 3	Cluster 9	Cluster 8	Cluster 10	Cluster 4	Cluster 12	Cluster 7	Cluster 5	C
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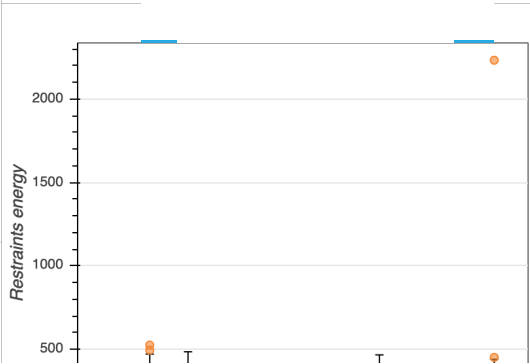
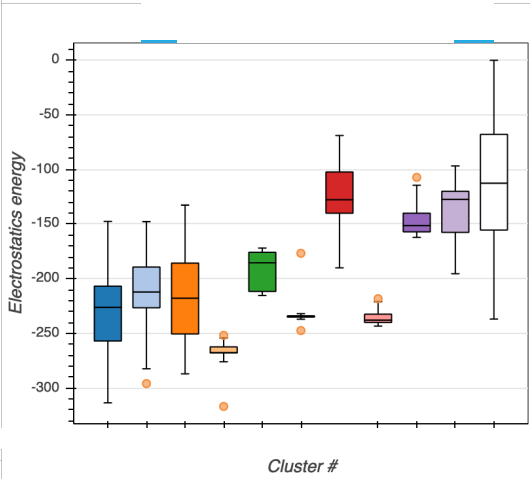
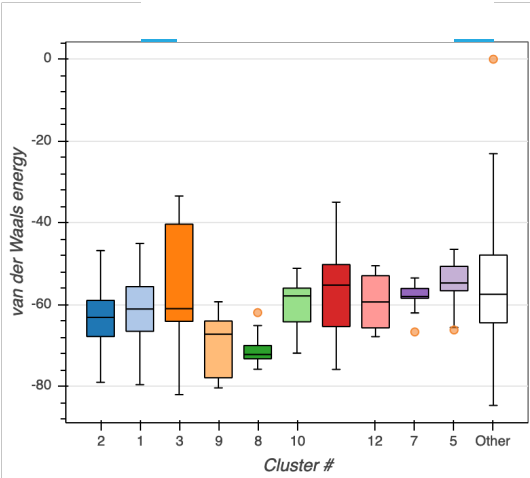






Cluster Analysis

All	None	Cluster 2	Cluster 1	Cluster 3	Cluster 9	Cluster 8	Cluster 10	Cluster 4	Cluster 12	Cluster 7	Cluster 5	C
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