Full wwPDB EM Validation Report

Apr 29, 2021 – 09:23 am BST

EMDB ID	:	EMD-12376
Title	:	Mutant huntingtin containing organelle resembles MVB in 6-month-old zQ175 mice
Authors	:	Zhou, Y.; Saibil, H.R.
Deposited on	:	2021-02-16
Resolution	:	Not provided

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/EMTomogramValidationReportHelp
with specific help available everywhere you see the (i) symbol.

The following versions of software and data (see references (1)) were used in the production of this report:

EMDB validation analysis	:	0.0.0.dev75
Validation Pipeline (wwPDB-VP)	:	2.18

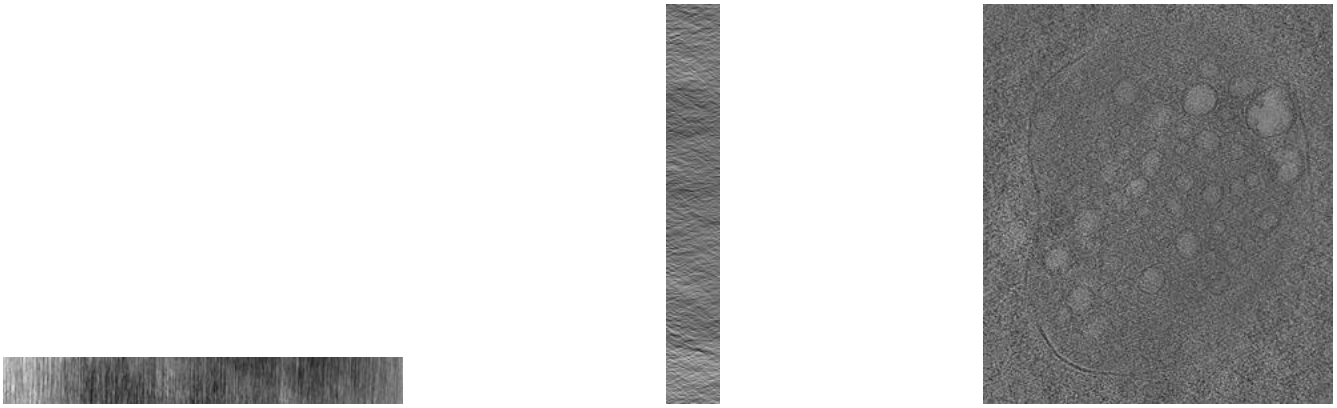
1 Experimental information

Property	Value	Source
EM reconstruction method	TOMOGRAPHY	Depositor
Imposed symmetry	Not Provided	
Number of tilted images used	30	Depositor
Resolution determination method	Not provided	
CTF correction method	Not provided	
Microscope	FEI POLARA 300	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	19.38	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum voxel value	106.000	Depositor
Minimum voxel value	-100.000	Depositor
Average voxel value	-9.345	Depositor
Voxel value standard deviation	13.522	Depositor
Recommended contour level	Not applicable	
Tomogram size (Å)	11426.693, 13078.745, 1523.263	wwPDB
Tomogram dimensions	2573, 2945, 343	wwPDB
Tomogram angles (°)	90.0, 90.0, 90.0	wwPDB
Grid spacing (Å)	4.441, 4.441, 4.441	Depositor

2 Tomogram visualisation

This section contains visualisations of the EMDB entry EMD-12376. These allow visual inspection of the internal detail of the tomogram and identification of artifacts.

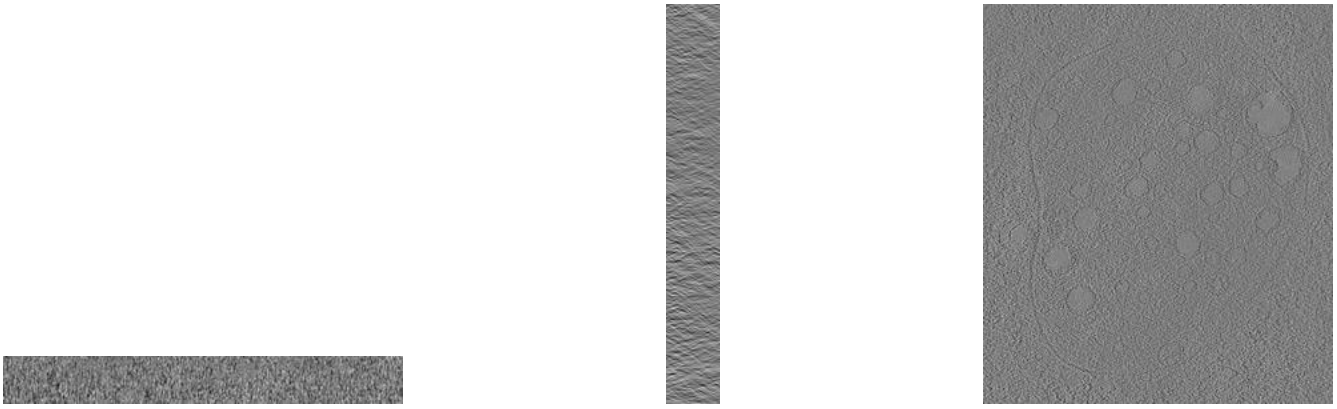
2.1 Orthogonal projections



X Y Z

The images above show the tomogram projected in three orthogonal directions.

2.2 Central slices



X Index: 1286 Y Index: 1472 Z Index: 171

The images above show central slices of the tomogram in three orthogonal directions.

2.3 Largest variance slices (i)

X Index: 0

Y Index: 0

Z Index: 31

The images above show the largest variance slices of the tomogram in three orthogonal directions.

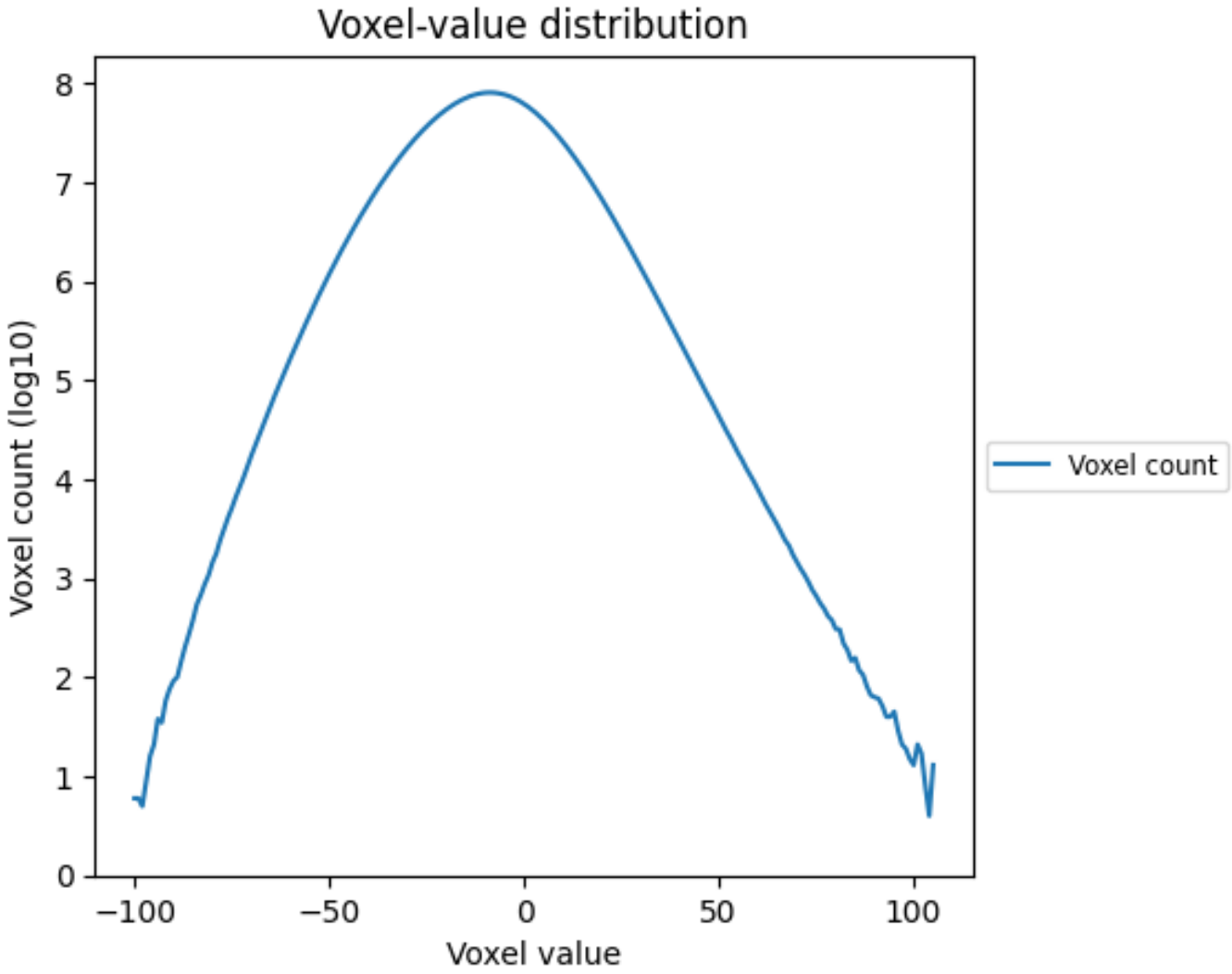
2.4 Mask visualisation (i)

This section was not generated. No masks/segmentation were deposited.

3 Tomogram analysis

This section contains the results of statistical analysis of the tomogram.

3.1 Voxel-value distribution



The voxel-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic.