



## wwPDB EM Validation Summary Report ⓘ

Apr 11, 2022 – 04:13 pm BST

EMDB ID : EMD-14396  
Title : Tomogram of wild-type mouse neuronal growth cone (T-zone), 4 x binned, processed.  
Authors : Atherton, J.; Stouffer, M.; Francis, F.; Moores, C.A.  
Deposited on : 2022-02-21  
Resolution : Not provided

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

We welcome your comments at [validation@mail.wwpdb.org](mailto: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 ⓘ symbol.

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The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

EMDB validation analysis : 0.0.0.dev97  
Validation Pipeline (wwPDB-VP) : 2.27

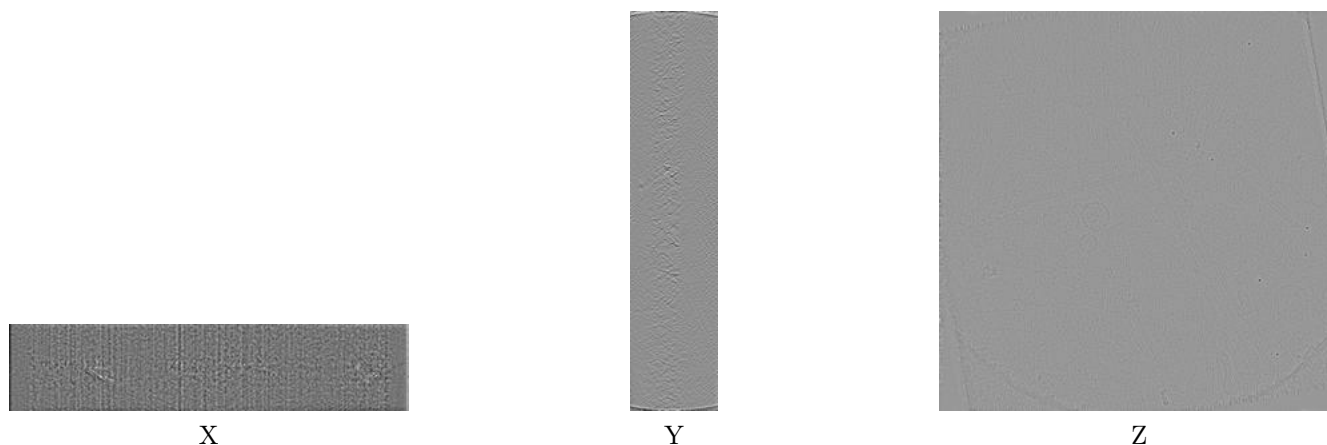
# 1 Experimental information

| Property                             | Value                      | Source    |
|--------------------------------------|----------------------------|-----------|
| EM reconstruction method             | TOMOGRAPHY                 | Depositor |
| Imposed symmetry                     | Not Provided               |           |
| Number of tilted images used         | 41                         | Depositor |
| Resolution determination method      | Not provided               |           |
| CTF correction method                | Nova-CTF                   | Depositor |
| Microscope                           | FEI POLARA 300             | Depositor |
| Voltage (kV)                         | 300                        | Depositor |
| Electron dose ( $e^-/\text{\AA}^2$ ) | 110.0                      | Depositor |
| Minimum defocus (nm)                 | 3.0                        | Depositor |
| Maximum defocus (nm)                 | 6.0                        | Depositor |
| Magnification                        | Not provided               |           |
| Image detector                       | GATAN K2 SUMMIT (4k x 4k)  | Depositor |
| Maximum voxel value                  | 47.223                     | Depositor |
| Minimum voxel value                  | -127.918                   | Depositor |
| Average voxel value                  | 0.023                      | Depositor |
| Voxel value standard deviation       | 1.000                      | Depositor |
| Recommended contour level            | Not applicable             |           |
| Tomogram size ( $\text{\AA}$ )       | 19976.85, 19976.85, 4310.0 | wwPDB     |
| Tomogram dimensions                  | 927, 927, 200              | wwPDB     |
| Tomogram angles ( $^\circ$ )         | 90.0, 90.0, 90.0           | wwPDB     |
| Grid spacing ( $\text{\AA}$ )        | 21.55, 21.55, 21.55        | Depositor |

## 2 Tomogram visualisation [i](#)

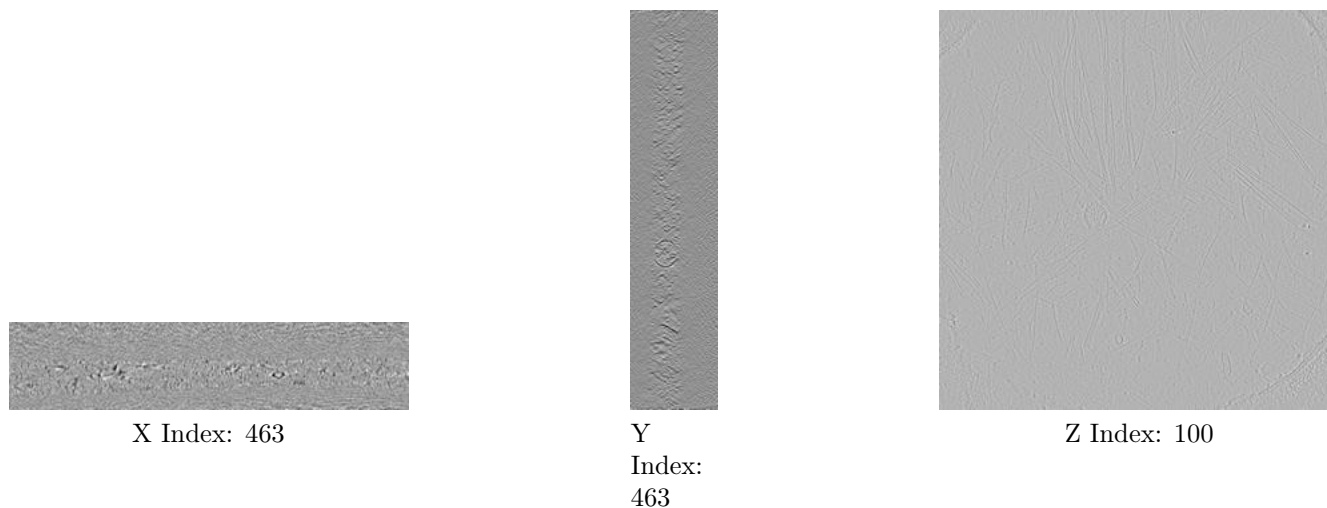
This section contains visualisations of the EMDB entry EMD-14396. These allow visual inspection of the internal detail of the tomogram and identification of artifacts.

### 2.1 Orthogonal projections [i](#)



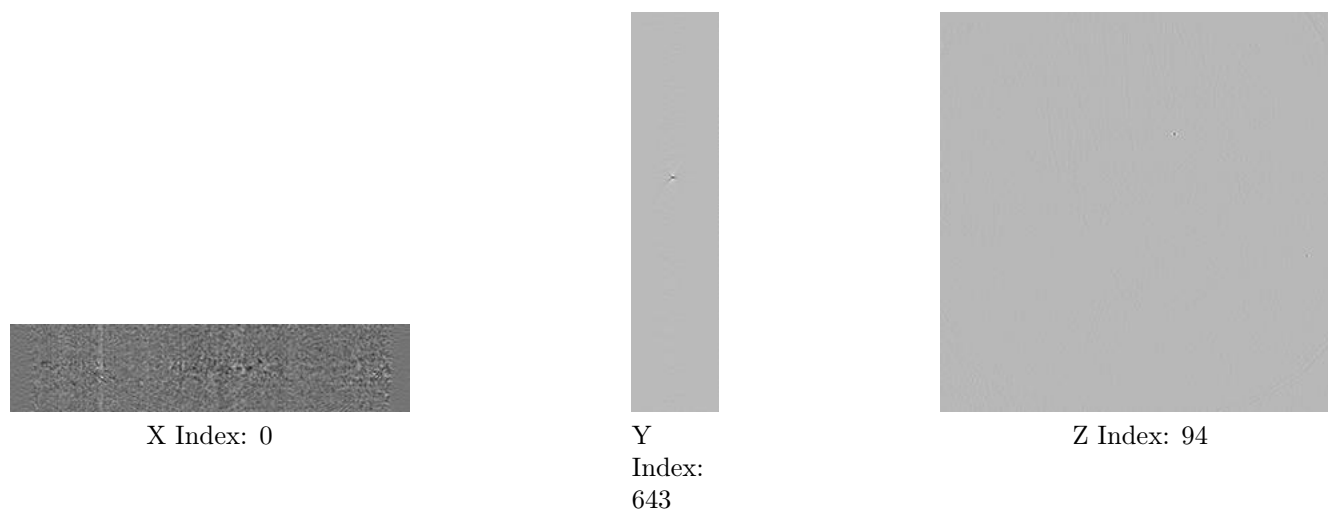
The images above show the tomogram projected in three orthogonal directions.

### 2.2 Central slices [i](#)



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

## 2.3 Largest variance slices [i](#)



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

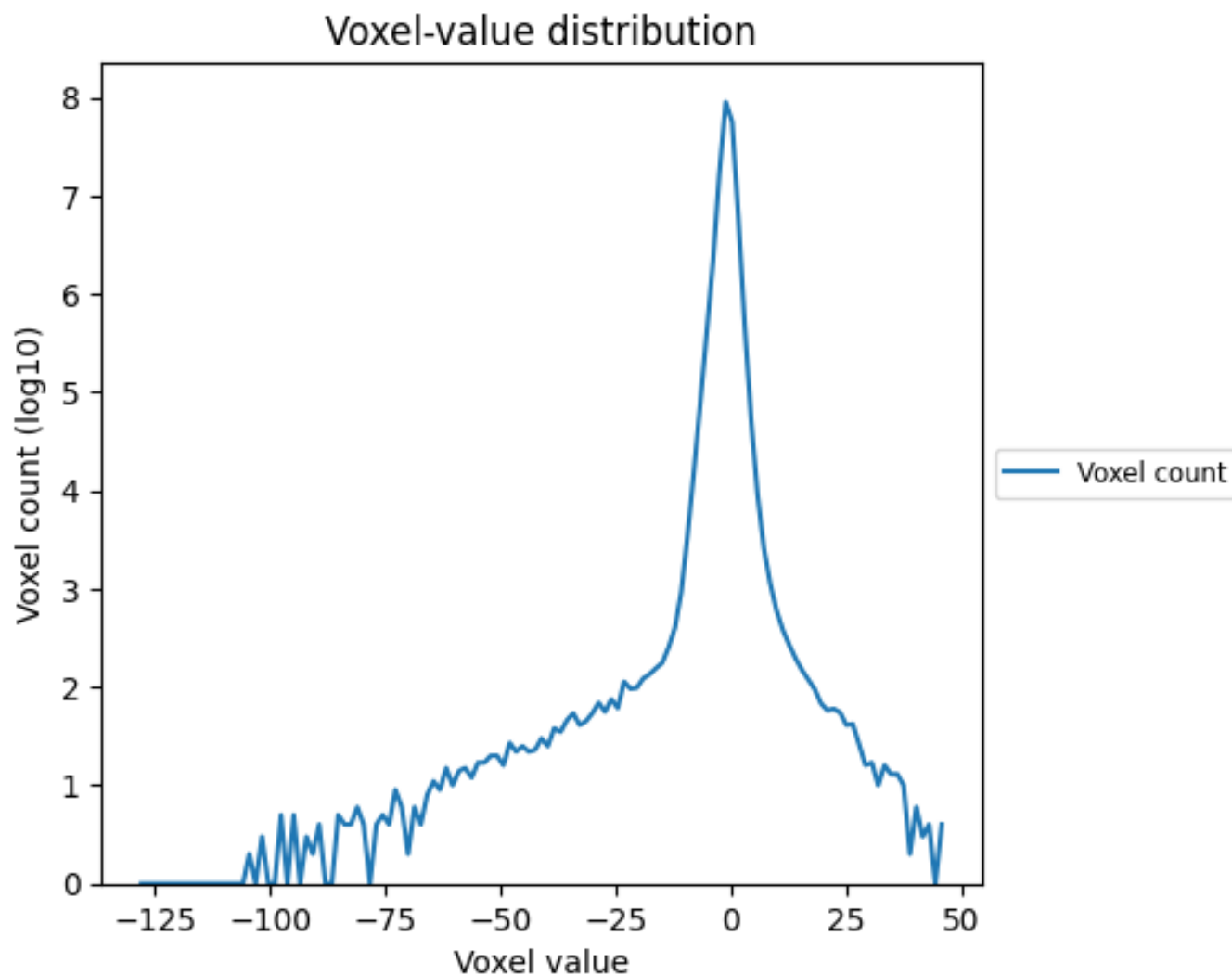
## 2.4 Mask visualisation [i](#)

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

### 3 Tomogram analysis [i](#)

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

#### 3.1 Voxel-value distribution [i](#)



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