

Resource Summary Report

Generated by [PRECISE-TBI](#) on Sep 8, 2026

mBrainAligner

RRID:SCR_022791

Type: Tool

Proper Citation

mBrainAligner (RRID:SCR_022791)

Resource Information

URL: https://github.com/Vaa3D/vaa3d_tools/tree/master/hackathon/mBrainAligner

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Description: Software package provides cross modality image registration pipeline to support whole brain mapping projects. Contains three modules: (1) image preprocessing and global registration, (2) Coherent Landmark Mapping (CLM) based automatic registration, and (3) optional semi-automatic refinement.

Resource Type: software resource, software toolkit

Defining Citation: [PMID:34887551](#)

Keywords: cross modality image registration, whole brain mapping, image registration

Funding: Fundamental Research Funds ;
NSFC-Guangdong Joint Fund ;
NSFC ;
Southeast University ;
University Synergy Innovation Program of Anhui Province

Availability: Free, Available for download, Freely available

Resource Name: mBrainAligner

Resource ID: SCR_022791

License: MIT license

Record Creation Time: 20220929T050157+0000

Record Last Update: 20260905T133311+0000

Ratings and Alerts

No rating or validation information has been found for mBrainAligner.

No alerts have been found for mBrainAligner.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 3 mentions in open access literature.

Listed below are recent publications. The full list is available at [PRECISE-TBI](#) .

Liu L, et al. (2025) Connectivity of single neurons classifies cell subtypes in mouse brains. Nature methods, 22(4), 861.

Kaltenecker D, et al. (2024) Virtual reality-empowered deep-learning analysis of brain cells. Nature methods, 21(7), 1306.

Liu Y, et al. (2024) Neuronal diversity and stereotypy at multiple scales through whole brain morphometry. Nature communications, 15(1), 10269.