

Resource Summary Report

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MicroDynamix

RRID:SCR_017671

Type: Tool

Proper Citation

MicroDynamix (RRID:SCR_017671)

Resource Information

URL: <https://www.mbfbioscience.com/microdynamix>

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Description: Software tool for dendritic spine analysis that enables to visualize and quantify spine morphology over time. After loading image data acquired at different time points from in vivo and in vitro imaging sessions, automatically aligns images in 3D, then reconstructs dendritic branches, detects dendritic spines, and identifies important metrics such as length, thickness, and overall number, for accurate quantitative comparison.

Resource Type: image reconstruction software, data processing software, software application, image analysis software, software resource

Keywords: MBF Bioscience, dendritic, spine, analysis, visualize, quantify, morphology, image, data, 3D, reconstruct

Availability: Restricted

Resource Name: MicroDynamix

Resource ID: SCR_017671

Record Creation Time: 20220129T080336+0000

Record Last Update: 20260810T040706+0000

Ratings and Alerts

No rating or validation information has been found for MicroDynamix.

No alerts have been found for MicroDynamix.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

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

Ho C, et al. (2025) CXCL12 Engages Cortical Inhibitory Neurons to Enhance Dendritic Spine Plasticity and Structured Network Activity. The Journal of neuroscience : the official journal of the Society for Neuroscience, 45(24).