

Resource Summary Report

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

AutoStereota

RRID:SCR_022330

Type: Tool

Proper Citation

AutoStereota (RRID:SCR_022330)

Resource Information

URL: <https://edspace.american.edu/openbehavior/project/autostereota/>

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Description: Automated surgical instrument for brain tissue aspiration. Instrument for microendoscope implantation. Utilizes robotic control of needle connected to vacuum pump to aspirate brain tissue. System consists of robotic surgical instrument built around commercially available stereotaxic instrument and open source MATLAB-based GUI for control.

Resource Type: data or information resource, instrument resource, portal, project portal

Defining Citation: [DOI:10.1016/j.jneumeth.2018.10.013](https://doi.org/10.1016/j.jneumeth.2018.10.013)

Keywords: OpenBehavior, Instrument, brain tissue aspiration, microendoscope implantation

Availability: Free, Freely available

Resource Name: AutoStereota

Resource ID: SCR_022330

Alternate URLs: <https://github.com/liang-bo/AutoStereota>

Record Creation Time: 20220602T050139+0000

Record Last Update: 20260905T133013+0000

Ratings and Alerts

No rating or validation information has been found for AutoStereota.

No alerts have been found for AutoStereota.

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 R, et al. (2026) Graph Theory Identifies Autistic Patterns in the Prefrontal Circuit of a Mouse Model of Autism. Research square.

Wang J, et al. (2025) Protocol for recording neuronal activity in food and cocaine self-administration in freely behaving mice using calcium imaging. STAR protocols, 6(3), 103972.

Barbera G, et al. (2024) Imaging distinct neuronal populations with a dual channel miniscope. Frontiers in neuroscience, 18, 1445020.