

Resource Summary Report

Generated by PRECISE-TBI on Sep 8, 2026

ALVIN

RRID:SCR_009527

Type: Tool

Proper Citation

ALVIN (RRID:SCR_009527)

Resource Information

URL: <http://sites.google.com/site/mrilateralventricle/>

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Description: A fully automated algorithm which works within SPM8 to segment the lateral ventricles from structural MRI images. The algorithm has been validated in infants, adults and patients with Alzheimer's disease (ICC>0.95). ALVIN is insensitive to different scanner sequences (ICC>0.99, 8 different sequences 1.5T and 3T) and sensitive to changes in ventricular volume. Processing time is approx 10mins per subject.

Abbreviations: ALVIN

Synonyms: ALVIN - Automatic Lateral Ventricle delineation, Automatic Lateral Ventricle delineation, ALVIN - Lateral Ventricle Segmentation

Resource Type: software application, software resource

Keywords: magnetic resonance, quantification, region of interest, segmentation, software, volume measurement, volumetric analysis, volumetric analysis

Availability: GNU General Public License

Resource Name: ALVIN

Resource ID: SCR_009527

Alternate IDs: nlx_155690

Alternate URLs: http://www.nitrc.org/projects/alvin_lv

Record Creation Time: 20220129T080253+0000

Record Last Update: 20260905T133252+0000

Ratings and Alerts

No rating or validation information has been found for ALVIN.

No alerts have been found for ALVIN.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 6 mentions in open access literature.

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

Oltra J, et al. (2025) Cerebrovascular burden and neurodegeneration linked to 15-year odor identification decline in older adults. *Frontiers in aging neuroscience*, 17, 1539508.

El Hajj Moussa F, et al. (2024) Enhancement of Benzene Emissions in Special Combinations of Electronic Nicotine Delivery System Liquid Mixtures. *Chemical research in toxicology*, 37(2), 227.

Talih S, et al. (2023) Effects of Aftermarket Electronic Cigarette Pods on Device Power Output and Nicotine, Carbonyl, and ROS Emissions. *Chemical research in toxicology*, 36(12), 1930.

Zachariou V, et al. (2021) Healthy dietary intake moderates the effects of age on brain iron concentration and working memory performance. *Neurobiology of aging*, 106, 183.

Zachariou V, et al. (2020) Cortical iron disrupts functional connectivity networks supporting working memory performance in older adults. *NeuroImage*, 223, 117309.

Pezzoli S, et al. (2018) Meta-analysis of regional white matter volume in bipolar disorder with replication in an independent sample using coordinates, T-maps, and individual MRI data. *Neuroscience and biobehavioral reviews*, 84, 162.