

# Resource Summary Report

Generated by RRID on Aug 6, 2026

## ALVIN

RRID:SCR\_009527

Type: Tool

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### Proper Citation

ALVIN (RRID:SCR\_009527)

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### 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](http://www.nitrc.org/projects/alvin_lv)

**Record Creation Time:** 20220129T080253+0000

**Record Last Update:** 20260805T044224+0000

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### Ratings and Alerts

No rating or validation information has been found for ALVIN.

No alerts have been found for ALVIN.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 6 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [RRID](#) .

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.