## **Resource Summary Report**

Generated by NIF on May 23, 2025

# **ALVIN**

RRID:SCR\_009527

Type: Tool

## **Proper Citation**

ALVIN (RRID:SCR\_009527)

#### **Resource Information**

**URL:** http://sites.google.com/site/mrilateralventricle/

Proper Citation: ALVIN (RRID:SCR\_009527)

**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

dellneatioN, 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

Funding:

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:** 20250522T060605+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 5 mentions in open access literature.

**Listed below are recent publications.** The full list is available at NIF.

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.