

# Resource Summary Report

Generated by PRECISE-TBI on Sep 8, 2026

## PreSurgMapp

RRID:SCR\_014427

Type: Tool

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### Proper Citation

PreSurgMapp (RRID:SCR\_014427)

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### Resource Information

**URL:** <https://github.com/missy139/PreSurgMapp>

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**Description:** A MATLAB toolbox for processing the functional areas of the brain using multi-modal fMRI data for pre-surgical mapping. It is composed of three types of individual-level ICA analyses for user use. Traditional ICA (task) can be used for task fMRI. Either Traditional ICA (rest) or ICA with DICI (rest) can be used for rs-fMRI. Traditional ICA (rest) is designed for users who already have a hypothesis of the pattern of the target component and want to have manually set components by themselves. ICA with DICI (rest) is completely automatic, given that the user provides a template (provided). The software utilizes an automatic component identification method that is based on the discriminatory-index. All the components from multiple ICA runs with multiple component settings are ranked and compiled.

**Resource Type:** software resource, software toolkit

**Keywords:** fmri, ica, dici, rs-fmri, dici, matlab, software toolkit, toolbox, multi modal, pre surgical, map

**Availability:** Open source

**Resource Name:** PreSurgMapp

**Resource ID:** SCR\_014427

**Alternate URLs:** <http://restfmri.net/forum/node/2382>.

**License:** GNU General Public License

**Record Creation Time:** 20220129T080320+0000

**Record Last Update:** 20260905T133258+0000

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## Ratings and Alerts

No rating or validation information has been found for PreSurgMapp.

No alerts have been found for PreSurgMapp.

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## Data and Source Information

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

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## Usage and Citation Metrics

We found 4 mentions in open access literature.

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

Barri??re DA, et al. (2020) Paracetamol is a centrally acting analgesic using mechanisms located in the periaqueductal grey. British journal of pharmacology, 177(8), 1773.

Huang H, et al. (2018) Tumor Tissue Detection using Blood-Oxygen-Level-Dependent Functional MRI based on Independent Component Analysis. Scientific reports, 8(1), 1223.

Lu J, et al. (2017) An automated method for identifying an independent component analysis-based language-related resting-state network in brain tumor subjects for surgical planning. Scientific reports, 7(1), 13769.

Huang H, et al. (2016) PreSurgMapp: a MATLAB Toolbox for Presurgical Mapping of Eloquent Functional Areas Based on Task-Related and Resting-State Functional MRI. Neuroinformatics, 14(4), 421.