

Resource Summary Report

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LESYMAP

RRID:SCR_017967

Type: Tool

Proper Citation

LESYMAP (RRID:SCR_017967)

Resource Information

URL: <https://github.com/dorianps/LESYMAP>

Proper Citation: LESYMAP (RRID:SCR_017967)

Description: Software R package to conduct lesion-to-symptom mapping from human MRI data. Takes lesion maps and cognitive performance scores from patients with stroke, and maps brain areas responsible for cognitive deficit.

Synonyms: Lesion to Symptom Mapping

Resource Type: software resource, software toolkit

Keywords: Conduct, lesion, symptom, mapping, human, MRI, data, cognitive, performance, score, patient, brain, area, deficit

Availability: Free, Available for download, Freely available

Resource Name: LESYMAP

Resource ID: SCR_017967

Alternate URLs: <https://dorianps.github.io/LESYMAP/>

License: Apache License 2.0

Record Creation Time: 20220129T080338+0000

Record Last Update: 20260829T183122+0000

Ratings and Alerts

No rating or validation information has been found for LESYMAP.

No alerts have been found for LESYMAP.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 14 mentions in open access literature.

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

Mikulenka P, et al. (2026) Neuroimaging of acute myocardial injury in stroke: insights into brain lesion locations and network disconnections. *Frontiers in neurology*, 17, 1719600.

Visalli A, et al. (2025) Post-stroke lesion correlates of errors in verbal and spatial production tasks. *Frontiers in psychology*, 16, 1517876.

Mhanna A, et al. (2025) Lesion and lesion network localization of dysnomia after epilepsy surgery. *Brain : a journal of neurology*, 148(3), 776.

Willis HE, et al. (2025) Voxel-Based Lesion-Symptom Mapping Localizes Residual Visual Function in Hemianopia. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 45(9).

Rangus I, et al. (2024) Fronto-thalamic networks and the left ventral thalamic nuclei play a key role in aphasia after thalamic stroke. *Communications biology*, 7(1), 700.

Jiang J, et al. (2023) White matter disconnection of left multiple demand network is associated with post-lesion deficits in cognitive control. *Nature communications*, 14(1), 1740.

Rajashekar D, et al. (2022) Lesion-symptom mapping with NIHSS sub-scores in ischemic stroke patients. *Stroke and vascular neurology*, 7(2), 124.

Barrash J, et al. (2022) Lesions in different prefrontal sectors are associated with different types of acquired personality disturbances. *Cortex; a journal devoted to the study of the nervous system and behavior*, 147, 169.

Tarantino V, et al. (2022) Impaired cognitive control in patients with brain tumors. *Neuropsychologia*, 169, 108187.

Sperber C, et al. (2022) The strange role of brain lesion size in cognitive neuropsychology. *Cortex; a journal devoted to the study of the nervous system and behavior*, 146, 216.

Ding J, et al. (2022) Anterior connectivity critical for recovery of connected speech after stroke. *Brain communications*, 4(6), fcac266.

Sperber C, et al. (2020) Rethinking causality and data complexity in brain lesion-behaviour inference and its implications for lesion-behaviour modelling. *Cortex; a journal devoted to the study of the nervous system and behavior*, 126, 49.

Ding J, et al. (2020) Dissociation between frontal and temporal-parietal contributions to connected speech in acute stroke. *Brain : a journal of neurology*, 143(3), 862.

Sperber C, et al. (2019) A network underlying human higher-order motor control: Insights from machine learning-based lesion-behaviour mapping in apraxia of pantomime. *Cortex; a journal devoted to the study of the nervous system and behavior*, 121, 308.