

Resource Summary Report

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BCBtoolkit

RRID:SCR_015519

Type: Tool

Proper Citation

BCBtoolkit (RRID:SCR_015519)

Resource Information

URL: <http://toolkit.bcblab.com/>

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Description: Software toolkit that provides several multi-modal tools to assess brain disconnections and remote effects of lesions. All modules are designed to process brain lesion data with a normalization algorithm, a module to estimate the probability and the severity of white matter disconnections, and a tool to build a map of the disconnected areas.

Synonyms: BCBtoolkit 4.0

Resource Type: data processing software, software toolkit, data analysis software, software resource, software application

Keywords: brain lesion, brain disconnection, white matter, bio.tools

Availability: Open source, Free, Available for download, Available on Mac OS, Available on Linux

Resource Name: BCBtoolkit

Resource ID: SCR_015519

Alternate IDs: biotools:bcbtoolkit

Alternate URLs: <https://bio.tools/bcbtoolkit>

Record Creation Time: 20220129T080326+0000

Record Last Update: 20260731T042952+0000

Ratings and Alerts

No rating or validation information has been found for BCBtoolkit.

No alerts have been found for BCBtoolkit.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 58 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Blini E, et al. (2025) Susceptibility to multitasking in stroke is associated to multiple-demand system damage and leads to lateralized visuospatial deficits. *Communications biology*, 8(1), 734.

Vidal JPC, et al. (2025) Factors behind poor cognitive outcome following a thalamic stroke. *Journal of neurology*, 272(1), 98.

Giles D, et al. (2025) Individualized prescriptive inference in ischaemic stroke. *Nature communications*, 16(1), 8968.

Di Caro V, et al. (2025) The neural bases of the reach-grasp movement in humans: Quantitative evidence from brain lesions. *Proceedings of the National Academy of Sciences of the United States of America*, 122(10), e2419801122.

Koba C, et al. (2025) Reshaped functional connectivity gradients in acute ischemic stroke. *NeuroImage. Clinical*, 45, 103755.

Nitto K, et al. (2025) Relationship between post-stroke trunk function and brain lesion locations: A support vector regression lesion-symptom mapping study. *Journal of rehabilitation medicine*, 57, jrm42782.

Thielen H, et al. (2025) Post-stroke sensory hypersensitivity: insights from lesion-symptom and disconnection mapping. *Brain communications*, 7(3), fcac176.

Lugtmeijer S, et al. (2025) Visual feature processing in a large stroke cohort: evidence against modular organization. *Brain : a journal of neurology*, 148(4), 1144.

Salvalaggio S, et al. (2025) Modeling Upper Limb Rehabilitation-Induced Recovery After Stroke: The Role of Attention as a Clinical Confounder. *Physical therapy*, 105(2).

Bertagnoli S, et al. (2025) Gerstmann's Syndrome and Limb Apraxia: A Single Case Study. *Archives of clinical neuropsychology : the official journal of the National Academy of Neuropsychologists*, 40(8), 1667.

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

Diana L, et al. (2024) The effects of occipital and parietal tDCS on chronic visual field defects after brain injury. *Frontiers in neurology*, 15, 1340365.

Gelineau-Morel R, et al. (2024) Network localization of pediatric lesion-induced dystonia. *medRxiv : the preprint server for health sciences*.

Chilvers M, et al. (2024) White matter disconnection impacts proprioception post-stroke. *PloS one*, 19(9), e0310312.

Seidel Malkinson T, et al. (2024) Intracortical recordings reveal vision-to-action cortical gradients driving human exogenous attention. *Nature communications*, 15(1), 2586.

Errante A, et al. (2024) Lesion mapping and functional characterization of hemiplegic children with different patterns of hand manipulation. *NeuroImage. Clinical*, 41, 103575.

Rounis E, et al. (2024) A preliminary study of white matter disconnections underlying deficits in praxis in left hemisphere stroke patients. *Brain structure & function*, 229(9), 2255.

Xiong Y, et al. (2023) Neural correlates of verbal fluency revealed by longitudinal T1, T2 and FLAIR imaging in stroke. *NeuroImage. Clinical*, 38, 103406.

Liu J, et al. (2023) Fronto-parietal networks shape human conscious report through attention gain and reorienting. *Communications biology*, 6(1), 730.

Alves PN, et al. (2023) Clinical presentation and neural correlates of stroke-associated spatial delusions. *European journal of neurology*, 30(1), 125.