

# Resource Summary Report

Generated by PRECISE-TBI on Sep 8, 2026

## BCBtoolkit

RRID:SCR\_015519

Type: Tool

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### Proper Citation

BCBtoolkit (RRID:SCR\_015519)

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### 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 analysis software, data processing software, software application, software resource, software toolkit

**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:** 20260905T132756+0000

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### Ratings and Alerts

No rating or validation information has been found for BCBtoolkit.

No alerts have been found for BCBtoolkit.

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## Data and Source Information

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

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## Usage and Citation Metrics

We found 66 mentions in open access literature.

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

Giampiccolo D, et al. (2026) Mapping white matter tracts with SEEG electrodes. *Epilepsia*, 67(3), 1090.

De Negri B, et al. (2026) Inside the frontal face network: multimodal evidence for distinct emotional and motor resonance circuits. *Brain structure & function*, 231(5).

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.

Hosp JA, et al. (2026) The degenerome-a novel streamline-wise approach for white matter integrity in neurodegeneration. *NPJ Parkinson's disease*, 12(1).

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

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

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.

Thielen H, et al. (2025) Post-stroke sensory hypersensitivity: insights from lesion-symptom and disconnection mapping. *Brain communications*, 7(3), fcaf176.

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.

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.

Conrad J, et al. (2025) Structural and functional connectivity of vestibular graviceptive to sensory and motor circuits. *Brain communications*, 7(4), fcac290.

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.

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).

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.

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.