

Resource Summary Report

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CONN

RRID:SCR_009550

Type: Tool

Proper Citation

CONN (RRID:SCR_009550)

Resource Information

URL: <https://www.conn-toolbox.org>

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Description: Matlab based cross platform software package for computation, display, and analysis of functional connectivity in fMRI (fcMRI). Used for resting state data (rsfMRI) as well as task related designs. Covers pipeline from raw fMRI data to hypothesis testing.

Abbreviations: CONN

Synonyms: CONN toolbox, CONN - functional connectivity toolbox, Connectivity Toolbox (CONN)

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

Defining Citation: [PMID:22642651](#), [PMID:21889994](#)

Keywords: fmri functional connectivity, resting state data, seed-based correlations, ROI-to-ROI graph analyses, group ICA, masked ICA, generalized PPI, ALFF, ICC, GCOR, LCOR,

Availability: Free, Available for download, Freely available

Resource Name: CONN

Resource ID: SCR_009550

Alternate IDs: nlx_155730

Alternate URLs: www.nitrc.org/projects/conn

License: MIT License, X Consortium License

Record Creation Time: 20220129T080253+0000

Record Last Update: 20260803T040537+0000

Ratings and Alerts

No rating or validation information has been found for CONN.

No alerts have been found for CONN.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 995 mentions in open access literature.

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

de Matos NMP, et al. (2026) Disassembling infra-low-frequency neurofeedback: A neurophysiological investigation of its feedback components. *NeuroImage*, 325, 121647.

Reyes H, et al. (2026) Examining functional connectivity in metabolic syndrome and small vessel disease: A novel approach to understanding olfactory dysfunction and Alzheimer's disease. *Brain research*, 1872, 150084.

Dudley J, et al. (2026) Gestational PBDE concentrations and functional connectivity in adolescents: The HOME Study. *International journal of hygiene and environmental health*, 272, 114745.

Zhahara SN, et al. (2026) Reduced functional connectome uniqueness on the whole brain and network levels as a clinically relevant and reproducible neuroimaging marker in major depressive disorder. *Journal of affective disorders*, 399, 121073.

Jung M, et al. (2026) Suicide attempt history, childhood trauma, and functional brain network alterations in major depressive disorder: a resting-state functional connectivity-based multivariate pattern analysis. *Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology*.

Bella GD, et al. (2026) Brain dynamic organization at the acute stage of severe brain injury. *NeuroImage*, 325, 121657.

Albert K, et al. (2026) Associations between subjective cognitive concern, brain network connectivity, and cognitive performance in cognitively normal older adults. *Aging brain*, 9, 100155.

Hempel M, et al. (2025) Aberrant associations between neuronal resting-state fluctuations and working memory-induced activity in major depressive disorder. *Molecular psychiatry*, 30(1), 4.

Vogt KM, et al. (2025) Neural correlates of systemic lidocaine administration in healthy adults measured by functional MRI: a single arm open label study. *British journal of anaesthesia*, 134(2), 414.

DeRosa J, et al. (2025) Multivariate Neural Markers of Individual Differences in Thought Control Difficulties. *bioRxiv : the preprint server for biology*.

Widegren E, et al. (2025) Fear extinction retention in children, adolescents, and adults. *Developmental cognitive neuroscience*, 71, 101509.

Tang X, et al. (2025) Identifying neurobiological heterogeneity in clinical high-risk psychosis: a data-driven biotyping approach using resting-state functional connectivity. *Schizophrenia (Heidelberg, Germany)*, 11(1), 13.

Luppi AI, et al. (2025) General anaesthesia decreases the uniqueness of brain functional connectivity across individuals and species. *Nature human behaviour*, 9(5), 987.

Zhao H, et al. (2025) Amplitude of low-frequency fluctuations in classical trigeminal neuralgia patients with purely paroxysmal and concomitant continuous pain. *Frontiers in pain research (Lausanne, Switzerland)*, 6, 1523845.

Catalogna M, et al. (2025) Mobile application leads to psychological improvement and correlated neuroimmune function change in subjective cognitive decline. *NPJ digital medicine*, 8(1), 359.

Doll A, et al. (2025) Encoding-related hippocampus connectivity for scenes, faces, and words: Healthy people compared to people with temporal and frontal lobe epilepsy. *NeuroImage. Clinical*, 46, 103784.

Andersson P, et al. (2025) Age Differences in Brain Functional Connectivity Underlying Proactive Interference in Working Memory. *Human brain mapping*, 46(5), e70189.

Kang H, et al. (2025) Neural representations in MPFC and insula encode individual differences in estimating others' preferences. *Social cognitive and affective neuroscience*, 20(1).

Starling-Alves I, et al. (2025) Children identified for classroom-based math support show altered resting-state connectivity in parietal brain regions. *Scientific reports*, 15(1), 27013.

Leibovici A, et al. (2025) Compensatory cerebellar activation during fluid intelligence processing following mild traumatic brain injury. *Scientific reports*, 15(1), 28377.