

Resource Summary Report

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cPPI Toolbox for fMRI

RRID:SCR_009518

Type: Tool

Proper Citation

cPPI Toolbox for fMRI (RRID:SCR_009518)

Resource Information

URL: http://www.nitrc.org/projects/cppi_toolbox/

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Description: A Matlab toolbox that allows computation of task-related functional connectivity between multiple pairs of regions. Task-related functional connectivity is computed using the correlational psychophysiological interaction (cPPI) methodology described in Fornito et al. (2012) PNAS, 109: 12788-12793. The toolbox assumes that first-level design matrices have been specified and estimated using SPM5 or later. It takes as input these design matrices as well as user-extracted regional time courses and returns a matrix of pair-wise, task-related functional connectivity for each participant. The method is scalable to large networks comprising hundreds of regions and is well-suited to graph theoretic analyses and functional connectomics. One modifiable script, cPPI_master.m, can be used to run the analysis for an entire sample of participants.

Abbreviations: cPPI Toolbox for fMRI

Resource Type: software resource, software toolkit

Keywords: reusable library, clinical neuroinformatics, computational neuroscience, connectivity analysis, imaging genomics, matlab, magnetic resonance, task, functional connectivity, region, connectivity

Availability: GNU General Public License

Resource Name: cPPI Toolbox for fMRI

Resource ID: SCR_009518

Alternate IDs: nlx_155679

Record Creation Time: 20220129T080253+0000

Record Last Update: 20260905T133252+0000

Ratings and Alerts

No rating or validation information has been found for cPPI Toolbox for fMRI.

No alerts have been found for cPPI Toolbox for fMRI.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

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

Verdejo-Román J, et al. (2017) Independent functional connectivity networks underpin food and monetary reward sensitivity in excess weight. *NeuroImage*, 146, 293.