

Resource Summary Report

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Generalized PPI Toolbox

RRID:SCR_009489

Type: Tool

Proper Citation

Generalized PPI Toolbox (RRID:SCR_009489)

Resource Information

URL: <http://www.nitrc.org/projects/gppi/>

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Description: An automated toolbox for a generalized form of psychophysiological interactions for SPM and FSLFAST. The automated toolbox can do the following: (a1) produce identical results to the current implementation in SPM (a2) use the current implementation of PPI in SPM but using the regional mean instead of the eigenvariate (a3) use a generalized form that allows a PPI for each task to be in the same model using either the regional mean of eigenvariate (b) create the model using the output of one of the (a) options and the first level design (c) estimate the model (/results directory) (d) compute the contrasts specified.

Synonyms: Generalized Psychophysiological Interaction Toolbox

Resource Type: software resource, software toolkit

Keywords: magnetic resonance, psychophysiological interaction, fmri, neuroimaging, automated toolbox, spm, fsfast

Availability: Acknowledgement requested, Available for download

Resource Name: Generalized PPI Toolbox

Resource ID: SCR_009489

Alternate IDs: nlx_155636

License: Personal license

Record Creation Time: 20220129T080253+0000

Record Last Update: 20260801T042647+0000

Ratings and Alerts

No rating or validation information has been found for Generalized PPI Toolbox.

No alerts have been found for Generalized PPI Toolbox.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 51 mentions in open access literature.

Listed below are recent publications. The full list is available at [T1D](#).

Mostauli A, et al. (2025) Placebo treatment entails resource-dependent downregulation of negative inputs. Scientific reports, 15(1), 9088.

Zheng S, et al. (2025) Temporal Interference Stimulation Boosts Working Memory Performance in the Frontoparietal Network. Human brain mapping, 46(3), e70160.

Kaufmann LK, et al. (2025) Surgery-induced reduction in inflammation relates to improved neural inhibitory control in obesity. Brain, behavior, and immunity, 129, 829.

Abutalebi J, et al. (2024) On the brain struggles to recognize basic facial emotions with face masks: an fMRI study. Frontiers in psychology, 15, 1339592.

Ogawa A, et al. (2023) Neural Basis of Social Influence of Observing Other's Perception in Dot-Number Estimation. Neuroscience, 515, 1.

Jaspers-Fayer F, et al. (2022) An fMRI study of cognitive planning before and after symptom provocation in pediatric obsessive-compulsive disorder. Journal of psychiatry & neuroscience : JPN, 47(6), E409.

Weidacker K, et al. (2021) Avoiding monetary loss: A human habenula functional MRI ultra-high field study. Cortex; a journal devoted to the study of the nervous system and behavior, 142, 62.

Liu S, et al. (2021) Brain responses to drug cues predict craving changes in abstinent heroin users: A preliminary study. NeuroImage, 237, 118169.

Jeye BM, et al. (2021) Support for an inhibitory model of word retrieval. Neuroscience letters, 755, 135876.

Wang J, et al. (2021) Reciprocal relations between reading skill and the neural basis of phonological awareness in 7- to 9-year-old children. NeuroImage, 236, 118083.

Vijayakumar S, et al. (2021) Neural mechanisms of predicting individual preferences based on group membership. Social cognitive and affective neuroscience, 16(9), 1006.

- Tsuruha E, et al. (2021) Effects of Aging on the Neural Mechanisms Underlying the Recollection of Memories Encoded by Social Interactions With Persons in the Same and Different Age Groups. *Frontiers in behavioral neuroscience*, 15, 743064.
- Wang J, et al. (2021) Common Brain Substrates Underlying Auditory Speech Priming and Perceived Spatial Separation. *Frontiers in neuroscience*, 15, 664985.
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- Yan Z, et al. (2020) Hyperfunctioning of the right posterior superior temporal sulcus in response to neutral facial expressions presents an endophenotype of schizophrenia. *Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology*, 45(8), 1346.
- Markett S, et al. (2020) Specific and segregated changes to the functional connectome evoked by the processing of emotional faces: A task-based connectome study. *Scientific reports*, 10(1), 4822.
- Tozzi L, et al. (2020) Connectivity of the Cognitive Control Network During Response Inhibition as a Predictive and Response Biomarker in Major Depression: Evidence From a Randomized Clinical Trial. *Biological psychiatry*, 87(5), 462.
- Ladouceur CD, et al. (2019) Neural systems underlying reward cue processing in early adolescence: The role of puberty and pubertal hormones. *Psychoneuroendocrinology*, 102, 281.
- Schultz J, et al. (2019) A human subcortical network underlying social avoidance revealed by risky economic choices. *eLife*, 8.
- Ebrahimi C, et al. (2019) Opposing roles for amygdala and vmPFC in the return of appetitive conditioned responses in humans. *Translational psychiatry*, 9(1), 148.