

Resource Summary Report

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DRIFTER

RRID:SCR_014937

Type: Tool

Proper Citation

DRIFTER (RRID:SCR_014937)

Resource Information

URL: <http://becs.aalto.fi/en/research/bayes/drifter/>

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Description: Model based Bayesian method for eliminating physiological noise from fMRI data. This algorithm uses image voxel analysis to isolate the cardiac and respiratory noise from the relevant data.

Synonyms: DRIFTER Toolbox

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

Defining Citation: [PMID:22281675](#)

Keywords: bayesian, physiological noise, fMRI, algorithm, cardiac, respiratory, image analysis, bold signal

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National Health Research Institute Taiwan NHRI-EX100-9715EC;
Academy of Finland 124698;
Academy of Finland 125349;
Academy of Finland 127624;
Academy of Finland 129670;
Academy of Finland 218054;

Academy of Finland 218248

Availability: Free, Available for download, Acknowledgement requested

Resource Name: DRIFTER

Resource ID: SCR_014937

License: GNU General Public License version 3

Record Creation Time: 20220129T080323+0000

Record Last Update: 20260804T043540+0000

Ratings and Alerts

No rating or validation information has been found for DRIFTER.

No alerts have been found for DRIFTER.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 28 mentions in open access literature.

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

Crawford LS, et al. (2025) Forebrain networks driving brainstem pain modulatory circuits during nocebo hyperalgesia in healthy humans. *Pain*, 166(9), e276.

Boorman DC, et al. (2025) Direct comparisons of neural activity during placebo analgesia and nocebo hyperalgesia between humans and rats. *Communications biology*, 8(1), 570.

Delang N, et al. (2025) The Acute Effects of Non-concussive Head Impacts on Brain Microstructure, Chemistry and Function in Male Soccer Players: A Pilot Randomised Controlled Trial. *Sports medicine - open*, 11(1), 77.

Meylakh N, et al. (2024) Altered Corticobrainstem Connectivity during Spontaneous Fluctuations in Pain Intensity in Painful Trigeminal Neuropathy. *eNeuro*, 11(7).

Crawford LS, et al. (2023) Function and biochemistry of the dorsolateral prefrontal cortex during placebo analgesia: how the certainty of prior experiences shapes endogenous pain relief. *Cerebral cortex (New York, N.Y. : 1991)*, 33(17), 9822.

Jaatela J, et al. (2023) Limb-specific thalamocortical tracts are impaired differently in hemiplegic and diplegic subtypes of cerebral palsy. *Cerebral cortex (New York, N.Y. : 1991)*, 33(19), 10245.

Mungoven TJ, et al. (2022) Alterations in pain processing circuitries in episodic migraine. *The journal of headache and pain*, 23(1), 9.

Saarimäki H, et al. (2022) Classification of emotion categories based on functional connectivity patterns of the human brain. *NeuroImage*, 247, 118800.

Lee B, et al. (2022) Altered basal ganglia infraslow oscillation and resting functional connectivity in complex regional pain syndrome. *Journal of neuroscience research*, 100(7), 1487.

Meylakh N, et al. (2022) Exploring alterations in sensory pathways in migraine. *The journal of headache and pain*, 23(1), 5.

Suvilehto JT, et al. (2021) Relationship-specific Encoding of Social Touch in Somatosensory and Insular Cortices. *Neuroscience*, 464, 105.

Wang W, et al. (2021) Noradrenergic correlates of chronic cocaine craving: neuromelanin and functional brain imaging. *Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology*, 46(4), 851.

Deng L, et al. (2021) Age-related dedifferentiation and hyperdifferentiation of perceptual and mnemonic representations. *Neurobiology of aging*, 106, 55.

Yoshikawa A, et al. (2020) Heart Rate and Respiration Affect the Functional Connectivity of Default Mode Network in Resting-State Functional Magnetic Resonance Imaging. *Frontiers in neuroscience*, 14, 631.

Bacha-Trams M, et al. (2020) Social perspective-taking shapes brain hemodynamic activity and eye movements during movie viewing. *Social cognitive and affective neuroscience*, 15(2), 175.

Di Pietro F, et al. (2020) Altered resting activity patterns and connectivity in individuals with complex regional pain syndrome. *Human brain mapping*, 41(13), 3781.

Mills EP, et al. (2020) Altered Brainstem Pain-Modulation Circuitry Connectivity During Spontaneous Pain Intensity Fluctuations. *Journal of pain research*, 13, 2223.

Geugies H, et al. (2019) Impaired reward-related learning signals in remitted unmedicated patients with recurrent depression. *Brain : a journal of neurology*, 142(8), 2510.

Bacha-Trams M, et al. (2018) A drama movie activates brains of holistic and analytical thinkers differentially. *Social cognitive and affective neuroscience*, 13(12), 1293.

Tikka P, et al. (2018) Narrative comprehension beyond language: Common brain networks activated by a movie and its script. *PloS one*, 13(7), e0200134.