

# Resource Summary Report

Generated by [SPARC SAWG](#) on Jul 29, 2026

## **DRIFTER**

RRID:SCR\_014937

Type: Tool

### Proper Citation

DRIFTER (RRID:SCR\_014937)

### Resource Information

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

**Proper Citation:** DRIFTER (RRID:SCR\_014937)

**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:** software application, image analysis software, software resource, data processing software

**Defining Citation:** [PMID:22281675](#)

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

**Funding:** NICHD R01HD040712;  
NINDS R01NS037462;  
NINDS R01NS048279;  
NCR P41RR014075;  
NIMH R01MH083744;  
NIDCD R21DC010060;  
NIBIB R21EB007298;  
National Science Council Taiwan NSC 98-2320-B-002-004-MY3;  
National Science Council Taiwan NSC 100-2325-B-002-046;  
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:** 20260728T043450+0000

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## Ratings and Alerts

No rating or validation information has been found for DRIFTER.

No alerts have been found for DRIFTER.

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## Data and Source Information

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

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## Usage and Citation Metrics

We found 28 mentions in open access literature.

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

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).

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.

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.

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.

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

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.

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

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

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.

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.