Resource Summary Report

Generated by dkNET on Apr 28, 2025

circular statistics

RRID:SCR_016651
Type: Tool

Proper Citation

circular statistics (RRID:SCR_016651)

Resource Information

URL: https://es.mathworks.com/matlabcentral/fileexchange/10676-circular-statistics-toolbox-directional-statistics

Proper Citation: circular statistics (RRID:SCR_016651)

Description: Software toolbox for MATLAB for the descriptive and inferential statistical analysis of directional data.

Abbreviations: CircStat

Synonyms: Matlab Circular Statistics Toolbox, , circstat-matlab, circular statistics, Circular Statistics, CircStat for Matlab

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

Defining Citation: DOI:10.18637/jss.v031.i10

Keywords: circular, inferential, statistics, directional, data

Funding: German National Academic Foundation ;
German Ministry of Education ;
Science ;
Research and Technology

Availability: Free, Available for download, Registration required to MathWorks Account,

Resource Name: circular statistics

Resource ID: SCR_016651

Alternate URLs: https://github.com/circstat/circstat-matlab

License: Copyright (c) 2011, Philipp Berens

Record Creation Time: 20220129T080331+0000

Record Last Update: 20250428T054012+0000

Ratings and Alerts

No rating or validation information has been found for circular statistics.

No alerts have been found for circular statistics.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 39 mentions in open access literature.

Listed below are recent publications. The full list is available at dkNET.

Abbaspoor S, et al. (2024) Circuit dynamics of superficial and deep CA1 pyramidal cells and inhibitory cells in freely moving macaques. Cell reports, 43(8), 114519.

Mohanta S, et al. (2024) Traveling waves shape neural population dynamics enabling predictions and internal model updating. bioRxiv : the preprint server for biology.

Adam CD, et al. (2024) Disrupted Hippocampal Theta-Gamma Coupling and Spike-Field Coherence Following Experimental Traumatic Brain Injury. bioRxiv : the preprint server for biology.

Jahn CI, et al. (2024) Learning attentional templates for value-based decision-making. Cell, 187(6), 1476.

Feliciano-Ramos PA, et al. (2023) Hippocampal memory reactivation during sleep is correlated with specific cortical states of the retrosplenial and prefrontal cortices. Learning & memory (Cold Spring Harbor, N.Y.), 30(9), 221.

Abbaspoor S, et al. (2023) State-dependent circuit dynamics of superficial and deep CA1 pyramidal cells in macaques. bioRxiv : the preprint server for biology.

Tseng CH, et al. (2023) The Effect of the Peristimulus ? Phase on Visual Perception through Real-Time Phase-Locked Stimulus Presentation. eNeuro, 10(8).

Li Q, et al. (2023) Reinstating olfactory bulb-derived limbic gamma oscillations alleviates depression-like behavioral deficits in rodents. Neuron, 111(13), 2065.

Raithel CU, et al. (2023) Recruitment of grid-like responses in human entorhinal and piriform cortices by odor landmark-based navigation. Current biology : CB, 33(17), 3561.

Veit J, et al. (2023) Cortical VIP neurons locally control the gain but globally control the coherence of gamma band rhythms. Neuron, 111(3), 405.

Raposo I, et al. (2023) Periodic attention deficits after frontoparietal lesions provide causal evidence for rhythmic attentional sampling. Current biology : CB, 33(22), 4893.

Koul A, et al. (2023) Interpersonal synchronization of spontaneously generated body movements. iScience, 26(3), 106104.

Dehnavi F, et al. (2023) Memory ability and retention performance relate differentially to sleep depth and spindle type. iScience, 26(11), 108154.

Hahn MA, et al. (2022) Slow oscillation-spindle coupling strength predicts real-life gross-motor learning in adolescents and adults. eLife, 11.

Gutierrez-Barragan D, et al. (2022) Unique spatiotemporal fMRI dynamics in the awake mouse brain. Current biology : CB, 32(3), 631.

Yang Q, et al. (2022) Smell-induced gamma oscillations in human olfactory cortex are required for accurate perception of odor identity. PLoS biology, 20(1), e3001509.

Rocchi F, et al. (2022) Increased fMRI connectivity upon chemogenetic inhibition of the mouse prefrontal cortex. Nature communications, 13(1), 1056.

Mackenzie-Gray Scott CA, et al. (2022) Resilient Hippocampal Gamma Rhythmogenesis and Parvalbumin-Expressing Interneuron Function Before and After Plaque Burden in 5xFAD Alzheimer's Disease Model. Frontiers in synaptic neuroscience, 14, 857608.

Stern T, et al. (2022) Deconstructing gastrulation at single-cell resolution. Current biology : CB, 32(8), 1861.

Patterson SS, et al. (2022) Conserved circuits for direction selectivity in the primate retina. Current biology : CB, 32(11), 2529.