

# Resource Summary Report

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## 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>

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

**Defining Citation:** [DOI:10.18637/jss.v031.i10](https://doi.org/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:** 20260807T042856+0000

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## Ratings and Alerts

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

No alerts have been found for circular statistics.

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## Data and Source Information

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

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## Usage and Citation Metrics

We found 47 mentions in open access literature.

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

Chang P, et al. (2026) Differential effects of sex and age on daily and infradian rhythms of mice. The Journal of physiology, 604(5), 1915.

Wunderlin M, et al. (2026) Deep sleep slow wave-spindle coupling is selectively linked to plasma amyloid- $\beta$  levels in older adults in clinical trials. Scientific reports, 16(1).

Adam CD, et al. (2026) Disrupted hippocampal theta-gamma coupling and spike-field coherence following experimental traumatic brain injury. eLife, 13.

Biswas S, et al. (2026) Canalization of neural dynamics by  $\beta$ -protocadherins in the developing zebrafish optic tectum. PLoS genetics, 22(6), e1012171.

Han HB, et al. (2026) Working memory readout varies with frontal theta rhythms. Neuron, 114(1), 159.

Fischer C, et al. (2025) A direct neural signature of serial dependence in working memory. eLife, 13.

Basha D, et al. (2025) The reuniens nucleus of the thalamus facilitates hippocampo-cortical dialogue during sleep. eLife, 12.

Griggs WS, et al. (2025) Functional ultrasound neuroimaging reveals mesoscopic organization of saccades in the lateral intraparietal area. Nature communications, 16(1), 8752.

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.

Utsumi MK, et al. (2023) Transitions of motor neuron activities during Ciona development. *Frontiers in cell and developmental biology*, 11, 1100887.

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

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*.

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.

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.