

Resource Summary Report

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MetaCycle

RRID:SCR_025729

Type: Tool

Proper Citation

MetaCycle (RRID:SCR_025729)

Resource Information

URL: <https://cran.r-project.org/web/packages/MetaCycle/vignettes/implementation.html>

Proper Citation: MetaCycle (RRID:SCR_025729)

Description: Software R package for detecting rhythmic signals from large scale time-series data. Used to evaluate periodicity in large scale data.

Resource Type: software toolkit, software resource

Defining Citation: [PMID:27378304](#)

Keywords: detecting rhythmic signals, large scale time-series data, rhythmic signals, evaluate periodicity, large scale data,

Funding: NINDS R01NS054794;
Defence Advanced Research Projects Agency

Availability: Free, Available for download, Freely available

Resource Name: MetaCycle

Resource ID: SCR_025729

Alternate URLs: <https://github.com/gangwug/MetaCycle>

License: GNU GPL v2

Record Creation Time: 20240914T053302+0000

Record Last Update: 20260810T040918+0000

Ratings and Alerts

No rating or validation information has been found for MetaCycle.

No alerts have been found for MetaCycle.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 60 mentions in open access literature.

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

Zhu L, et al. (2026) Multilayer Timing of Cardiac Circadian Regulation Informs Prevention and Treatment of Cardiovascular Disease. *Vascular health and risk management*, 22, 578582.

Kadukhina E, et al. (2026) The PER2:BRCA1:POU2F1(OCT-1) ternary complex represents a multi-component scaffold model for circadian gene regulation. *Neurobiology of sleep and circadian rhythms*, 20, 100141.

Lee Y, et al. (2026) Diurnal Regulation and Gene-Specific Vulnerability of Oxidative Alcohol-Metabolizing Enzymes to Circadian Disruption. *International journal of molecular sciences*, 27(4).

Zeng S, et al. (2026) Chronobiology of neurotropic viruses: rhythmic viral entry and arrhythmic host clocks. *Cell discovery*, 12(1), 11.

Malik DM, et al. (2026) Glucose is dynamically regulated by time of day in humans and *Drosophila*. *PLoS biology*, 24(4), e3003717.

Sun Y, et al. (2026) Temporal dynamics and functional annotation of transcriptome rhythmicity in HEK293T cells. *PloS one*, 21(2), e0343991.

Santos JLA, et al. (2026) CCorGsDB: a database for clock correlated genes in the mouse and human central nervous systems. *Npj biological timing and sleep*, 3(1).

Worthen JM, et al. (2026) Cell-Autonomous and Systemic Circadian Regulation of Gene Expression in Adipocytes. *bioRxiv : the preprint server for biology*.

Liu Y, et al. (2026) Time-of-Day Defines the Risk of Thermally Abused Frying Oil to Renal Injury by Modulating the Diurnal Dynamics of Oxylipins. *Exploration (Beijing, China)*, 6(1), 20240073.

Liu T, et al. (2026) Time-series single-cell transcriptomics reveals pervasive daily rhythmicity and nocturnal spermatogenesis in the zebrafish testis. *Science advances*, 12(24), eade7124.

Hua S, et al. (2025) Genetic disruption of the circadian gene Bmal1 in the intestinal epithelium reduces colonic inflammation. *EMBO reports*, 26(12), 3138.

Lago Solis B, et al. (2025) Circadian clock-independent ultradian rhythms in lipid metabolism in the *Drosophila* fat body. *The Journal of biological chemistry*, 301(6), 110245.

Chen B, et al. (2025) The feasibility of salivary melatonin in assessing perioperative circadian rhythm in surgical patients: study protocol for a multicentre prospective study in China. *BMJ open*, 15(12), e105679.

Chang J, et al. (2025) Endocytic recycling is central to circadian collagen fibrillogenesis and disrupted in fibrosis. *eLife*, 13.

Ciampi C, et al. (2025) Intestinal inflammation induces glymphatic remodeling, priming early neurodegenerative signals in male mice. *Alzheimer's & dementia : the journal of the Alzheimer's Association*, 21(10), e70640.

Bento I, et al. (2025) Parasite and vector circadian clocks mediate efficient malaria transmission. *Nature microbiology*, 10(4), 882.

da Rocha AL, et al. (2025) Exhaustive exercise abolishes REV-ERB-?? circadian rhythm and shifts the kynurenine pathway to a neurotoxic profile in mice. *The Journal of physiology*, 603(14), 3923.

Greer AJ, et al. (2025) Long-term sub-erythral UVB exposure does not impact circadian rhythms in mice under standard and rotating shift light conditions. *Photochemistry and photobiology*, 101(6), 1429.

Li G, et al. (2025) Molecular basis of circadian rhythm divergence between diurnal and nocturnal lepidopterans. *iScience*, 28(4), 112206.

Kang SW, et al. (2025) *Drosophila* peptidyl-prolyl cis/trans isomerase-like 4 regulates circadian rhythm by supporting high-amplitude oscillations of PERIOD. *iScience*, 28(5), 112457.