

Resource Summary Report

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BioDare2

RRID:SCR_027193

Type: Tool

Proper Citation

BioDare2 (RRID:SCR_027193)

Resource Information

URL: <https://biodare2.ed.ac.uk/>

Proper Citation: BioDare2 (RRID:SCR_027193)

Description: Data analysis resource and repository for biological data related to circadian rhythms, sharing public data from over 10,000 experiments (in 2025). The main features of BioDare2 are: fast analysis of rhythmic data (rhythm detection and period, phase, amplitude), timeseries processing, attractive visualizations, simple data description, data sharing with permalinks, easy data uploads and a modern UI.

Resource Type: production service resource, data repository, time sampled measurement data set, data processing software, storage service resource, numeric dataset, data analysis service, data set, data or information resource, software application, software resource, data visualization software, service resource, analysis service resource

Defining Citation: [PMID:34674164](#)

Keywords: circadian rhythms data, biological data related to circadian rhythms, analysis of rhythmic data, timeseries processing, attractive visualizations, simple data description, data sharing with permalinks,

Funding: UKRI-BBSRC BB/Y006194/1;
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Availability: Restricted

Resource Name: BioDare2

Resource ID: SCR_027193

Record Creation Time: 20250712T055207+0000

Record Last Update: 20260815T042952+0000

Ratings and Alerts

No rating or validation information has been found for BioDare2.

No alerts have been found for BioDare2.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 72 mentions in open access literature.

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

Zhang H, et al. (2026) XAP5 CIRCADIAN TIMEKEEPER coordinates circadian rhythms and anthocyanin biosynthesis independently of splicing. *Plant physiology*, 201(2).

Yamaguchi CC, et al. (2026) Effects of the signaling molecule cyclic-di-GMP on cyanobacterial circadian rhythm in *Synechococcus elongatus* PCC 7942. *Journal of bacteriology*, 208(3), e0057425.

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).

Fang M, et al. (2026) Mechanism and reconstitution of circadian transcription in cyanobacteria. *Nature structural & molecular biology*, 33(2), 275.

Pritchard JH, et al. (2026) A PROMOTER::LUCIFERASE reporter system reveals key elements of the circadian regulation of Crassulacean acid metabolism (CAM) in *Kalanchoë laxiflora* Baker. *The Plant journal : for cell and molecular biology*, 126(5), e70937.

Harissa Z, et al. (2026) A damaging mutation in COL6A3 alters the mechanobiologic response of chondrocytes derived from human induced pluripotent stem cells. *Stem cell research & therapy*, 17(1).

Liu X, et al. (2026) RpaA Overexpression Enhances Bioluminescence Intensity and Elevates Rhythmic Extracellular Vesicle Yield in *Synechococcus elongatus* PCC 7942. *Life (Basel, Switzerland)*, 16(6).

Matz-Soja M, et al. (2026) Modeling the dynamics of hepatic metabolism: the predominance of 12-hour rhythmicity in metabolic adaptation. *Cellular and molecular life sciences : CMLS*, 83(1), 55.

Bevir HJ, et al. (2026) Circadian clock proteins KaiB and Rbp2 of *Synechococcus elongatus* display oscillations in their subcellular localization patterns. *Microbiology spectrum*, 14(2), e0184525.

- Rigonato J, et al. (2025) Latitudinal diversity in circadian and light-sensing genes in an ecologically vital group of marine picoeukaryote algae. *The ISME journal*, 19(1).
- Smyllie NJ, et al. (2025) Quantitative measures of clock protein dynamics in the mouse suprachiasmatic nucleus extends the circadian time-keeping model. *The EMBO journal*, 44(13), 3614.
- Zhang HY, et al. (2025) ROS regulates circadian rhythms by modulating Ezh2 interactions with clock proteins. *Redox biology*, 81, 103526.
- Pu H, et al. (2025) Pharmacological targeting of BMAL1 modulates circadian and immune pathways. *Nature chemical biology*, 21(5), 736.
- Yeom M, et al. (2025) Time-of-day dependent promotion of keratinocyte differentiation by *Cinnamomum cassia* bark extract through the p38 MAPK Pathway. *PloS one*, 20(3), e0318360.
- Dong L, et al. (2025) Post-biting behavioral reprogramming underlies reproductive efficiency in *Aedes aegypti* mosquitoes. *bioRxiv : the preprint server for biology*.
- Dong L, et al. (2025) Post-biting behavioral reprogramming underlies reproductive efficiency in *Aedes aegypti* mosquitoes. *Cell reports*, 44(12), 116663.
- Cuddapah VA, et al. (2025) Rare variants in BMAL1 are associated with a neurodevelopmental syndrome. *Proceedings of the National Academy of Sciences of the United States of America*, 122(31), e2427085122.
- Permingeat V, et al. (2025) The critical human pathogen *Acinetobacter baumannii* exhibits light-regulated circadian rhythms. *Communications biology*, 8(1), 1385.
- Sancar C, et al. (2025) Clock-Dependent Phosphorylation of CikA Regulates Its Activity. *Journal of biological rhythms*, 40(5), 455.
- Ibáñez C, et al. (2025) The circadian clock of *Populus* affects physiological, transcriptional and metabolomic responses to osmotic and ionic components of salt stress. *Npj biological timing and sleep*, 2(1).