

Resource Summary Report

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CIRCexplorer2

RRID:SCR_021664

Type: Tool

Proper Citation

CIRCexplorer2 (RRID:SCR_021664)

Resource Information

URL: <https://circexplorer2.readthedocs.io/en/latest/>

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Description: Software package for comprehensive and integrative circular RNA analysis. It is the successor of CIRCexplorer with plenty of new features to facilitate circular RNA identification and characterization. Used to annotate circRNAs, de novo assemble novel circular RNA transcripts and chracterize various of alternative (back-)splicing events of circular RNAs.

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

Defining Citation: [PMID:27365365](#), [PMID:30539552](#)

Keywords: Decipher alternative back splicing, decipher circRNAs splicing pattern, circular RNA analysis, annotate circRNAs

Funding: Ministry of Science and Technology of China ;
National Natural Science Foundation of China

Availability: Free, Available for download, Freely available

Resource Name: CIRCexplorer2

Resource ID: SCR_021664

License: MIT

Record Creation Time: 20220129T080356+0000

Record Last Update: 20260829T182723+0000

Ratings and Alerts

No rating or validation information has been found for CIRCexplorer2.

No alerts have been found for CIRCexplorer2.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 49 mentions in open access literature.

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

Sekiguchi N, et al. (2026)

Circ72309 modulates gemcitabine metabolism and gemcitabine sensitivity in pancreatic cancer: Serum Circ72309 levels as a potential predictor of treatment response

. International journal of oncology, 68(3).

Luo W, et al. (2026) Integrated Transcriptomics Reveals a SHEV ORF3-Mediated circRNA Network That Disrupts Riboflavin Metabolism and Activates the ko05212 Pathway. Veterinary sciences, 13(3).

Marini A, et al. (2026) HnRNP C binding to inverted Alu elements protects the transcriptome from pre-mRNA circularization. Science advances, 12(18), eaea2351.

Saxena V, et al. (2026) RNA sequencing reveals differential expression of circular RNAs in human small cell lung cancer. Scientific reports, 16(1), 7134.

Zhou J, et al. (2026) Potassium fertilization affects nutritional quality and aroma in Haruka apple fruits: insights from multi-omics analysis. BMC plant biology, 26(1).

Zhao H, et al. (2026) Time-Resolved Whole-Transcriptome Analysis Suggests Candidate Non-Coding RNA Regulatory Networks Associated with PBAN-Induced Pheromone Biosynthesis in *Ostrinia furnacalis*. Insects, 17(6).

Das P, et al. (2026) Antisense Oligonucleotide Pulldown and Silencing of Circular RNA Nfix In Vivo in Neonatal Mouse Lungs. Current protocols, 6(3), e70339.

Swift SZ, et al. (2026) Integration of Short- and Long-Read RNA Sequencing Enables the Discovery of Circular RNAs. Cancer research, 86(5), 1300.

Gao Y, et al. (2025) Recent advances in investigation of circRNA/lncRNA-miRNA-mRNA networks through RNA sequencing data analysis. Briefings in functional genomics, 24.

Gao Y, et al. (2025) Dysregulated circRNA-miRNA-mRNA networks reveal stage-specific mRNA expression changes in Parkinson's disease. Molecular brain, 19(1), 4.

Li M, et al. (2025) Molecular mechanism of nano-vitamin A-mediated regulation of intramuscular fat deposition involving noncoding RNAs in pigs. *BMC genomics*, 26(1), 716.

Abdelgawad A, et al. (2025) Defining the Parameters for Sorting of RNA Cargo Into Extracellular Vesicles. *Journal of extracellular vesicles*, 14(7), e70113.

Dong X, et al. (2025) Multi-omics machine learning classifier and blood transcriptomic signature of Parkinson's disease. *Research square*.

Gu B, et al. (2025) Integrated Whole-Transcriptome Analysis to Elucidate the Core Regulatory Network of circRNA Involved in Ovarian Development and Reproductive Capacity Differences in Sheep: circRNA2058-miR-9226-5p-MET Axis. *Animals : an open access journal from MDPI*, 15(21).

De?irmençay ?, et al. (2025) Integrative Analysis of Dog Serum-Derived CircRNA Expression and Disease Severity, Inflammatory and Cardiac Damage Biomarkers Related to Canine Parvoviral Enteritis. *Veterinary medicine and science*, 11(3), e70344.

Singh S, et al. (2025) Circular RNA Pde4dip regulates myogenesis by interacting with Zfp143 mRNA: a novel regulatory axis. *RNA biology*, 22(1), 1.

Wang Y, et al. (2024) Assessment of different enrichment methods revealed the optimal approach to identify bovine circRnas. *RNA biology*, 21(1), 1.

Gao Y, et al. (2024) Investigation of the Circular Transcriptome in Alzheimer's Disease Brain. *Journal of molecular neuroscience : MN*, 74(3), 64.

Singh S, et al. (2024) Global identification of mRNA-interacting circular RNAs by CLIPPR-Seq. *Nucleic acids research*, 52(6), e29.

Hu R, et al. (2024) Transcriptional pathobiology and multi-omics predictors for Parkinson's disease. *bioRxiv : the preprint server for biology*.