Resource Summary Report

Generated by FDI Lab - SciCrunch.org on Apr 10, 2025

CIRCexplorer

RRID:SCR_016893
Type: Tool

Proper Citation

CIRCexplorer (RRID:SCR_016893)

Resource Information

URL: https://github.com/YangLab/CIRCexplorer

Proper Citation: CIRCexplorer (RRID:SCR_016893)

Description: Software tool as a combined strategy to identify junction reads from back spliced exons and intron lariats. Computational pipeline to precisely identify junction reads from Circularized Exons. Used to identify circular RNAs (circRNAs and ciRNAs).

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

Defining Citation: PMID:25242744

Keywords: identify, read, back, spliced, exon, intron, lariat, junction, circularized, circRNA, ciRNA

Funding: CAS ;
MOST ;
NSFC ;
SIBS

Availability: Free, Available for download, Freely available

Resource Name: CIRCexplorer

Resource ID: SCR_016893

Alternate IDs: SCR_016894

Alternate URLs: http://yanglab.github.io/CIRCexplorer/

License: MIT licence

Record Creation Time: 20220129T080332+0000

Record Last Update: 20250410T070808+0000

Ratings and Alerts

No rating or validation information has been found for CIRCexplorer.

No alerts have been found for CIRCexplorer.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 22 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Whittle BJ, et al. (2024) Early-stage idiopathic Parkinson's disease is associated with reduced circular RNA expression. NPJ Parkinson's disease, 10(1), 25.

Tsitsipatis D, et al. (2023) Transcriptomes of human primary skin fibroblasts of healthy individuals reveal age-associated mRNAs and long noncoding RNAs. Aging cell, 22(11), e13915.

Dong X, et al. (2023) Circular RNAs in the human brain are tailored to neuron identity and neuropsychiatric disease. bioRxiv : the preprint server for biology.

Loganathan T, et al. (2023) Non-coding RNAs in human health and disease: potential function as biomarkers and therapeutic targets. Functional & integrative genomics, 23(1), 33.

Dong X, et al. (2023) Circular RNAs in the human brain are tailored to neuron identity and neuropsychiatric disease. Nature communications, 14(1), 5327.

Tsitsipatis D, et al. (2022) Transcriptomic analysis of human ALS skeletal muscle reveals a disease-specific pattern of dysregulated circRNAs. Aging, 14(24), 9832.

Postel MD, et al. (2022) Transcriptome analysis provides critical answers to the "variants of uncertain significance" conundrum. Human mutation, 43(11), 1590.

Nisar S, et al. (2021) Insights Into the Role of CircRNAs: Biogenesis, Characterization, Functional, and Clinical Impact in Human Malignancies. Frontiers in cell and developmental biology, 9, 617281.

Ho JS, et al. (2021) HNRNPM controls circRNA biogenesis and splicing fidelity to sustain cancer cell fitness. eLife, 10.

Chen TC, et al. (2020) Host-derived circular RNAs display proviral activities in Hepatitis C virus-infected cells. PLoS pathogens, 16(8), e1008346.

Gan X, et al. (2020) CircMUC16 promotes autophagy of epithelial ovarian cancer via interaction with ATG13 and miR-199a. Molecular cancer, 19(1), 45.

Zucko D, et al. (2020) Circular RNAs Are Regulators of Diverse Animal Transcriptomes: One Health Perspective. Frontiers in genetics, 11, 999.

Goel A, et al. (2020) Back-Splicing Transcript Isoforms (Circular RNAs) Affect Biologically Relevant Pathways and Offer an Additional Layer of Information to Stratify NMIBC Patients. Frontiers in oncology, 10, 812.

Humphreys DT, et al. (2019) Ularcirc: visualization and enhanced analysis of circular RNAs via back and canonical forward splicing. Nucleic acids research, 47(20), e123.

Chen S, et al. (2019) Widespread and Functional RNA Circularization in Localized Prostate Cancer. Cell, 176(4), 831.

Zhao W, et al. (2019) Present Scenario of Circular RNAs (circRNAs) in Plants. Frontiers in plant science, 10, 379.

Vo JN, et al. (2019) The Landscape of Circular RNA in Cancer. Cell, 176(4), 869.

Ji P, et al. (2019) Expanded Expression Landscape and Prioritization of Circular RNAs in Mammals. Cell reports, 26(12), 3444.

Liu CX, et al. (2019) Structure and Degradation of Circular RNAs Regulate PKR Activation in Innate Immunity. Cell, 177(4), 865.

Sudmant PH, et al. (2018) Widespread Accumulation of Ribosome-Associated Isolated 3' UTRs in Neuronal Cell Populations of the Aging Brain. Cell reports, 25(9), 2447.