Resource Summary Report

Generated by NIF on Apr 18, 2025

PARalyzer

RRID:SCR_001208
Type: Tool

Proper Citation

PARalyzer (RRID:SCR_001208)

Resource Information

URL: http://www.genome.duke.edu/labs/ohler/research/PARalyzer/

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Description: Software tool to generate a high resolution map of interaction sites between RNA-binding proteins and their targets. The algorithm utilizes the deep sequencing reads generated by the newly developed PAR-CLIP (Photoactivatable-Ribonucleoside-Enhanced Crosslinking and Immunoprecipitation) protocol. The use of photoactivatable nucleotides in the PAR-CLIP protocol results in a more efficient crosslinking between the RNA-binding protein and its target relative to other CLIP methods; in addition a nucleotide substitution occurs at the site of crosslinking during Illumina library preparation. PARalyzer utilizes this nucleotide substition in a kernel density estimate classifier to generate the high resolution set of Protein-RNA interaction sites.

Abbreviations: PARalyzer

Synonyms: PAR-CLIP data analyzer, PARalyzer (PAR-CLIP data analyzer)

Resource Type: software resource

Defining Citation: PMID:21851591

Keywords: interaction, rna-binding protein, bio.tools

Funding:

Availability: Free for academic use

Resource Name: PARalyzer

Resource ID: SCR_001208

Alternate IDs: biotools:paralyzer, OMICS_02137

Alternate URLs: https://bio.tools/paralyzer

Record Creation Time: 20220129T080206+0000

Record Last Update: 20250410T064654+0000

Ratings and Alerts

No rating or validation information has been found for PARalyzer.

No alerts have been found for PARalyzer.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 6 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF.

Sarshad AA, et al. (2018) Argonaute-miRNA Complexes Silence Target mRNAs in the Nucleus of Mammalian Stem Cells. Molecular cell, 71(6), 1040.

Bose DA, et al. (2017) RNA Binding to CBP Stimulates Histone Acetylation and Transcription. Cell, 168(1-2), 135.

Mobin MB, et al. (2016) The RNA-binding protein vigilin regulates VLDL secretion through modulation of Apob mRNA translation. Nature communications, 7, 12848.

Xie H, et al. (2015) Novel functions and targets of miR-944 in human cervical cancer cells. International journal of cancer, 136(5), E230.

Reyes-Herrera PH, et al. (2014) Computational Methods for CLIP-seq Data Processing. Bioinformatics and biology insights, 8, 199.

Mukherjee N, et al. (2011) Integrative regulatory mapping indicates that the RNA-binding protein HuR couples pre-mRNA processing and mRNA stability. Molecular cell, 43(3), 327.