

Resource Summary Report

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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 substitution 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

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

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: 20260801T190142+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 [ASWG](#) .

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.