

Resource Summary Report

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CoSMoS_Analysis

RRID:SCR_016896

Type: Tool

Proper Citation

CoSMoS_Analysis (RRID:SCR_016896)

Resource Information

URL: https://github.com/gelles-brandeis/CoSMoS_Analysis

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Description: Software tools for analyzing co-localization single-molecule spectroscopy image data.

Abbreviations: CoSMoS Analysis

Synonyms: co-localization single-molecule spectroscopy, Co-localization Single-Molecule Spectroscopy Analysis, co-localization single molecule spectroscopy, CoSMoS

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

Keywords: co-localization, single, molecule, spectroscopy, image, data, analysis

Funding: NIGMS ;
NIH

Availability: Free, Available for download, Freely available

Resource Name: CoSMoS_Analysis

Resource ID: SCR_016896

License: GNU General Public License (GPL), version 3

Record Creation Time: 20220129T080332+0000

Record Last Update: 20260729T044425+0000

Ratings and Alerts

No rating or validation information has been found for CoSMoS_Analysis.

No alerts have been found for CoSMoS_Analysis.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 17 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Fu X, et al. (2025) Dynamics and evolutionary conservation of B complex protein recruitment during spliceosome activation. Nucleic acids research, 53(4).

Azam TP, et al. (2025) Mechanism of client loading from BiP to Grp94 and its disruption by select inhibitors. Nature communications, 16(1), 3575.

Fu X, et al. (2024) Dynamics and Evolutionary Conservation of B Complex Protein Recruitment During Spliceosome Activation. bioRxiv : the preprint server for biology.

Amasino AL, et al. (2023) Regulation of replication origin licensing by ORC phosphorylation reveals a two-step mechanism for Mcm2-7 ring closing. Proceedings of the National Academy of Sciences of the United States of America, 120(29), e2221484120.

Asada R, et al. (2023) Single-molecule quantitation of RNA-binding protein occupancy and stoichiometry defines a role for Yra1 (Aly/REF) in nuclear mRNP organization. Cell reports, 42(11), 113415.

Amasino A, et al. (2023) Regulation of replication origin licensing by ORC phosphorylation reveals a two-step mechanism for Mcm2-7 ring closing. bioRxiv : the preprint server for biology.

Fu X, et al. (2022) Identification of transient intermediates during spliceosome activation by single molecule fluorescence microscopy. Proceedings of the National Academy of Sciences of the United States of America, 119(48), e2206815119.

Hansen SR, et al. (2022) Multi-step recognition of potential 5' splice sites by the *Saccharomyces cerevisiae* U1 snRNP. eLife, 11.

Baek I, et al. (2021) Single-molecule studies reveal branched pathways for activator-dependent assembly of RNA polymerase II pre-initiation complexes. Molecular cell, 81(17), 3576.

Gupta S, et al. (2021) A helicase-tethered ORC flip enables bidirectional helicase loading. eLife, 10.

Jin Y, et al. (2021) The ER Chaperones BiP and Grp94 Regulate the Formation of Insulin-Like Growth Factor 2 (IGF2) Oligomers. *Journal of molecular biology*, 433(13), 166963.

Harden TT, et al. (2020) Alternative transcription cycle for bacterial RNA polymerase. *Nature communications*, 11(1), 448.

Rodgers ML, et al. (2019) Transcription Increases the Cooperativity of Ribonucleoprotein Assembly. *Cell*, 179(6), 1370.

Kaur H, et al. (2019) Analysis of spliceosome dynamics by maximum likelihood fitting of dwell time distributions. *Methods (San Diego, Calif.)*, 153, 13.

Stumper SK, et al. (2019) Delayed inhibition mechanism for secondary channel factor regulation of ribosomal RNA transcription. *eLife*, 8.

Champasa K, et al. (2019) A conserved Mcm4 motif is required for Mcm2-7 double-hexamer formation and origin DNA unwinding. *eLife*, 8.

Chadda R, et al. (2016) Measuring Membrane Protein Dimerization Equilibrium in Lipid Bilayers by Single-Molecule Fluorescence Microscopy. *Methods in enzymology*, 581, 53.