

# Resource Summary Report

Generated by [NIF](#) on Jul 30, 2026

## FRETBursts

RRID:SCR\_016898

Type: Tool

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### Proper Citation

FRETBursts (RRID:SCR\_016898)

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### Resource Information

**URL:** <https://github.com/OpenSMFS/FRETBursts>

**Proper Citation:** FRETBursts (RRID:SCR\_016898)

**Description:** Software for burst analysis of freely diffusing single-molecule Förster Resonance Energy Transfer (smFRET) experiments to study cellular processes at the molecular scale. Used for single and multi-spot single-molecule FRET (smFRET) data.

**Abbreviations:** FRETBursts

**Synonyms:** Förster Resonance Energy Transfer Bursts, FRETBursts

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

**Defining Citation:** [PMID:27532626](#)

**Keywords:** freely, diffusing, single, molecule, FRET, smFRET, cellular, process, intermolecular, interaction, conformational, change, biomacromolecule, data, bio.tools

**Funding:** NIGMS R01 GM95904;  
NIGMS R01 GM069709

**Availability:** Free, Available for download, Freely available

**Resource Name:** FRETBursts

**Resource ID:** SCR\_016898

**Alternate IDs:** biotools:fretbursts

**Alternate URLs:** <https://opensmfs.github.io/FRETBursts/>, <https://bio.tools/fretbursts>

**License:** GNU GPL

**Record Creation Time:** 20220129T080332+0000

**Record Last Update:** 20260731T043013+0000

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## Ratings and Alerts

No rating or validation information has been found for FRETBursts.

No alerts have been found for FRETBursts.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 2 mentions in open access literature.

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

Yanas A, et al. (2024) RNA helicases DDX3X and DDX3Y form nanometer-scale RNA-protein clusters that support catalytic activity. Current biology : CB, 34(24), 5714.

Chio US, et al. (2019) A Chaperone Lid Ensures Efficient and Privileged Client Transfer during Tail-Anchored Protein Targeting. Cell reports, 26(1), 37.