

# Resource Summary Report

Generated by RRID on Aug 12, 2026

## Thunder

RRID:SCR\_016556

Type: Tool

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### Proper Citation

Thunder (RRID:SCR\_016556)

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### Resource Information

**URL:** <http://thunder-project.org/>

**Proper Citation:** Thunder (RRID:SCR\_016556)

**Description:** Software package for the analysis of image and time series data in Python. Provides data structures and algorithms for loading, processing, and analyzing these data. Runs locally or against a Spark cluster with an identical API.

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

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

**Resource Name:** Thunder

**Resource ID:** SCR\_016556

**Alternate URLs:** <https://github.com/thunder-project/thunder>

**License:** MIT

**Record Creation Time:** 20220129T080331+0000

**Record Last Update:** 20260812T044321+0000

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### Ratings and Alerts

No rating or validation information has been found for Thunder.

No alerts have been found for Thunder.

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### Data and Source Information

## Usage and Citation Metrics

We found 10 mentions in open access literature.

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

Ran Q, et al. (2026) Integrating MACSPI and SILAC for Neuron Type-specific Proteomics in *Caenorhabditis elegans*. *Molecular & cellular proteomics : MCP*, 25(4), 101545.

Boch?? A, et al. (2025) Phenomics Demonstrates Cytokines Additive Induction of Epithelial to Mesenchymal Transition. *Journal of cellular physiology*, 240(1), e31491.

Metz F, et al. (2025) Functional and intricate interaction network connecting *Helicobacter pylori* Cag type 4 secretion system surface proteins with outer membrane proteins HopQ and HopZ. *microLife*, 6, uqaf027.

Read E, et al. (2024) Bi-directional signaling between the intestinal epithelium and type-3 innate lymphoid cells regulates secretory dynamics and interleukin-22. *Mucosal immunology*, 17(1), 1.

Rowland B, et al. (2022) THUNDER: A reference-free deconvolution method to infer cell type proportions from bulk Hi-C data. *PLoS genetics*, 18(3), e1010102.

Yang E, et al. (2022) A brainstem integrator for self-location memory and positional homeostasis in zebrafish. *Cell*, 185(26), 5011.

Sheikhan NY, et al. (2021) Evaluating the effectiveness of the Family Connections program for caregivers of youth with mental health challenges, part II: A qualitative analysis. *Health expectations : an international journal of public participation in health care and health policy*, 24(2), 709.

Morimoto MM, et al. (2020) Spatial readout of visual looming in the central brain of *Drosophila*. *eLife*, 9.

Ozzoude M, et al. (2020) Cortical Thickness Estimation in Individuals With Cerebral Small Vessel Disease, Focal Atrophy, and Chronic Stroke Lesions. *Frontiers in neuroscience*, 14, 598868.

Kerlin A, et al. (2019) Functional clustering of dendritic activity during decision-making. *eLife*, 8.