

Resource Summary Report

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Spot

RRID:SCR_018915

Type: Tool

Proper Citation

Spot (RRID:SCR_018915)

Resource Information

URL: <https://github.com/big-data-lab-team/spot>

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Description: Open source software tool for file based localization of numerical perturbations in data analysis pipelines. Identifies components in pipeline, at resolution level of system process, that produce different results in different execution conditions.

Synonyms: Spot: File-based localization of numerical perturbations in data analysis pipelines

Resource Type: software toolkit, software resource

Keywords: Numerical perturbation, reproducibility, numerical differences, operating systems, neuroimaging pipeline stability, bio.tools

Availability: Free, Freely available, Available for download

Resource Name: Spot

Resource ID: SCR_018915

Alternate IDs: DOI:10.5281/zenodo.3873219, biotools:spottool

Alternate URLs: <https://bio.tools/spottool>

License: MIT

Record Creation Time: 20220129T080342+0000

Record Last Update: 20260729T044501+0000

Ratings and Alerts

No rating or validation information has been found for Spot.

No alerts have been found for Spot.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 141 mentions in open access literature.

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

Horschitz S, et al. (2026) Development of a fully human glioblastoma-in-brain-spheroid model for accelerated translational research. *Journal of advanced research*, 79, 363.

Certo M, et al. (2025) Lactate signalling leads to aggregation of immune-inflammatory hotspots and SLC5A12 blockade promotes their resolution. *Nature metabolism*, 7(8), 1663.

Blair EM, et al. (2025) Genomic and transcriptomic characterization of carbohydrate-active enzymes in the anaerobic fungus *Neocallimastix cameroonii* var. *constans*. *G3 (Bethesda, Md.)*, 15(8).

Triplett MK, et al. (2025) The Slx4-Rad1-Rad10 nuclease differentially regulates deletions and duplications induced by a replication fork barrier. *PLoS genetics*, 21(5), e1011720.

Zhou A, et al. (2025) Asiaticoside Attenuates Chronic Restraint Stress-Induced Hippocampal CA1 Neuronal Ferroptosis via Activating BDNF/Nrf2/GPX4 Signaling Pathway. *Drug design, development and therapy*, 19, 793.

Tajpara P, et al. (2025) Patient-derived pancreatic tumor bacteria exhibit oncogenic properties and are recognized by MAIT cells in tumor spheroids. *Frontiers in immunology*, 16, 1553034.

Gonzalez-Teshima LY, et al. (2025) Hepatic vein-derived factors may affect pulmonary arteriovenous malformations after single ventricle palliation by modulating vascular cell behavior. *Scientific reports*, 15(1), 41640.

Pereira M, et al. (2025) Induction of haemodynamic travelling waves by glial-related vasomotion in a rat model of neuroinflammation: implications for functional neuroimaging. *EBioMedicine*, 116, 105777.

Tsai CY, et al. (2025) Human Platelet Lysate Treatment for Exposure Keratopathy: An In Vivo Confocal Microscopy and Anterior Segment OCT Study. *Investigative ophthalmology & visual science*, 66(6), 73.

Rajan P, et al. (2025) p38 blockade reverses the immune suppressive tumor microenvironment in metastatic breast cancer. *Research square*.

Roney IJ, et al. (2025) Two new enzymes that liberate undecaprenyl-phosphate to replenish the carrier lipid pool during envelope stress. *mBio*, 16(3), e0371024.

Elia U, et al. (2025) Novel Bivalent mRNA-LNP Vaccine for Highly Effective Protection against Pneumonic Plague. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 12(26), e2501286.

Ma K, et al. (2025) An Engineered Soluble Single-Chain TCR Engager for KRAS-G12V Specific Tumor Immunotherapy. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 12(31), e00181.

Ma R, et al. (2025) Seizure evolution in a mouse model of West syndrome involves complex and time-dependent synapse remodeling, gliosis and alterations in lipid metabolism. *PLoS biology*, 23(10), e3003192.

Lamb NA, et al. (2025) Secure biosystems design in *Saccharomyces cerevisiae* establishes effective biocontainment strategies and mechanisms of escape. *Applied and environmental microbiology*, 91(9), e0074125.

Ammann J, et al. (2025) Data on Swiss public's acceptance and sustainability perceptions of food produced with chemical, digital and mechanical weed control measures and the influence of information source on technology perception in agriculture. *Data in brief*, 58, 111212.

Tan QS, et al. (2025) The Impact of Affective Theory of Mind on Autistic Individual's Perception of Remorse. *Autism research : official journal of the International Society for Autism Research*, 18(3), 604.

Adegboye C, et al. (2025) Necrotizing enterocolitis causes increased ileal goblet cell loss in *Wnt2b* KO mice. *bioRxiv : the preprint server for biology*.

Marco Salas S, et al. (2025) Optimizing Xenium In Situ data utility by quality assessment and best-practice analysis workflows. *Nature methods*, 22(4), 813.

Azimzadeh PN, et al. (2025) Mechanisms of uropathogenic *E. coli* mucosal association in the gastrointestinal tract. *Science advances*, 11(5), eadp7066.