

Resource Summary Report

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Spark

RRID:SCR_006207

Type: Tool

Proper Citation

Spark (RRID:SCR_006207)

Resource Information

URL: <http://sparkinsight.org>

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Description: A clustering and visualization tool that enables the interactive exploration of genome-wide data, with a specialization in epigenomics data. Spark is also available as a service within the Epigenome toolset of the Genboree Workbench. The approach utilizes data clusters as a high-level visual guide and supports interactive inspection of individual regions within each cluster. The cluster view links to gene ontology analysis tools and the detailed region view connects to existing genome browser displays taking advantage of their wealth of annotation and functionality.

Abbreviations: Spark

Synonyms: Sparkinsight

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

Defining Citation: [PMID:22960372](#)

Keywords: epigenomics, genome browser, clustering, visualization, genome, computation, pattern discovery, cluster

Funding: Canadian Institutes of Health Research ;
Michael Smith Foundation for Health Research ;
Natural Sciences and Engineering Research Council of Canada ;
NIDA U01 DA025956;
NIEHS 5U01ES017154-02;
NHGRI HG004558

Availability: Available for download without charge. Please cite.

Resource Name: Spark

Resource ID: SCR_006207

Alternate IDs: nlx_151753

Record Creation Time: 20220129T080234+0000

Record Last Update: 20260803T040431+0000

Ratings and Alerts

No rating or validation information has been found for Spark.

No alerts have been found for Spark.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 403 mentions in open access literature.

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

Onovbiona H, et al. (2025) Exploring Factors of Diagnostic Timing Among Black Autistic Youth. Journal of autism and developmental disorders, 55(4), 1438.

Feng C, et al. (2025) Hypoxia-triggered ERR α acetylation enhanced its oncogenic role and promoted progression of renal cell carcinoma by coordinating autophagosome-lysosome fusion. Cell death & disease, 16(1), 23.

Casten LG, et al. (2025) Rapidly evolved genomic regions shape individual language abilities in present-day humans. bioRxiv : the preprint server for biology.

Chen J, et al. (2025) Piwi regulates the usage of alternative transcription start sites in the Drosophila ovary. Nucleic acids research, 53(1).

Zhang H, et al. (2025) Quercetin alleviates LPS/iE-DAP-induced liver injury by suppressing ferroptosis via regulating ferritinophagy and intracellular iron efflux. Redox biology, 81, 103557.

Conner CM, et al. (2025) The Relationships, Employment, Autonomy, and Life Satisfaction (REALS) Measures for Autistic Adults and Adults With Other Intellectual and Developmental Disabilities: Psychometric Testing of the Self-Report and Proxy Versions. Autism research : official journal of the International Society for Autism Research, 18(3), 583.

Cai Z, et al. (2025) CAD hijacks STING to impair antitumor immunity and radiotherapy efficacy of colorectal cancer. *Cell death & disease*, 16(1), 641.

Tlhajoane M, et al. (2025) Interactive voice response surveys as a method for increasing the representativeness of rural respondents in a mortality mobile phone survey: Findings from Malawi. *Tropical medicine & international health : TM & IH*, 30(9), 937.

Dupuis LL, et al. (2025) Factors Associated With Self-Report Symptom Screening Adherence in Pediatric Cancer Patients. *Cancer medicine*, 14(14), e71053.

Zhang Y, et al. (2025) Cancer therapy resistance from a spatial-omics perspective. *Clinical and translational medicine*, 15(7), e70396.

Zhou D, et al. (2025) Combined therapy with DR5-targeting antibody-drug conjugate and CDK inhibitors as a strategy for advanced colorectal cancer. *Cell reports. Medicine*, 6(6), 102158.

Chen M, et al. (2025) SMOPCA: spatially aware dimension reduction integrating multi-omics improves the efficiency of spatial domain detection. *Genome biology*, 26(1), 135.

Cui T, et al. (2025) SpatialRef: a reference of spatial omics with known spot annotation. *Nucleic acids research*, 53(D1), D1215.

Lilliecreutz C, et al. (2025) SPARK: an mHealth intervention for self-management and treatment of gestational diabetes mellitus in Sweden - protocol for a randomised controlled trial. *BMJ open*, 15(3), e089355.

Libster N, et al. (2025) Satisfaction with friendship support protects autistic youth from the negative effects of peer victimization. *Autism : the international journal of research and practice*, 29(8), 2193.

Caballero D, et al. (2025) The yeast Mkt1/Pbp1 complex promotes adaptive responses to respiratory growth. *The Journal of cell biology*, 224(10).

Sengupta C, et al. (2025) The TROG 15.01 stereotactic prostate adaptive radiotherapy utilizing kilovoltage intrafraction monitoring (SPARK) clinical trial database. *Medical physics*, 52(3), 1941.

Koko M, et al. (2025) Contribution of autosomal rare and de novo variants to sex differences in autism. *American journal of human genetics*, 112(3), 599.

Choi CE, et al. (2025) NIR-Responsive ZIF-8 Metal-Organic Framework Nanohybrids with Photothermal, Antimicrobial, and Osteoinductive Properties to Prevent Implant Infection. *Macromolecular bioscience*, 25(5), e2400594.

Wang Z, et al. (2025) Transcriptomic and proteomic-based analysis of the mechanisms by which drought and salt stresses affect the quality of *Isatis Folium*. *BMC plant biology*, 25(1), 332.