

Resource Summary Report

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Manta

RRID:SCR_022997

Type: Tool

Proper Citation

Manta (RRID:SCR_022997)

Resource Information

URL: <https://github.com/Illumina/manta>

Proper Citation: Manta (RRID:SCR_022997)

Description: Software tool for rapid detection of structural variants and indels for germline and cancer sequencing applications. Used to call structural variants and indels from mapped paired end sequencing reads.

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

Defining Citation: [PMID:26647377](#)

Keywords: rapid detection, structural variants and indels, mapped paired end sequencing reads, structural variant, indel

Availability: Free, Available for download, Freely available

Resource Name: Manta

Resource ID: SCR_022997

License: GPL v3.0 license

Record Creation Time: 20221124T050201+0000

Record Last Update: 20260912T200031+0000

Ratings and Alerts

No rating or validation information has been found for Manta.

No alerts have been found for Manta.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 218 mentions in open access literature.

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

Kubo S, et al. (2026) Characterization of fucoxanthin-deficient strains in the haptophyte *Tisochrysis lutea* induced by heavy-ion beam irradiation. *Plant & cell physiology*, 67(3), 265.

Sun D, et al. (2026) Analysis of familial exudative vitreoretinopathy (FEVR) cases in the UK 100 000 genomes project increases diagnostic rate and implicates heterozygous CTNND1 mutations in FEVR. *Journal of medical genetics*, 63(3), 187.

Wang Y, et al. (2026) The 1000 Chinese Pangenome empowers medical and population genetics. *Nature*, 654(8117), 121.

Wakayama S, et al. (2026) Limitations of serial cloning in mammals. *Nature communications*, 17(1).

Ohlstrom DJ, et al. (2026) Longitudinal Profiling of Tumor and Immune Compartments Uncovers Patterns of Dysregulation and Associations with Response in Multiple Myeloma. *Blood cancer discovery*, 7(2), 266.

Taylor CA, et al. (2026) Germline duplication of MYCN predisposes to childhood embryonal tumours. *EBioMedicine*, 124, 106132.

Wanitsuwan W, et al. (2026) WGS identifies Lynch syndrome (LS) patients and uncovers a large family with MSH2-related LS in Southern Thailand. *PloS one*, 21(5), e0348867.

Banu K, et al. (2026) IRS4 is a PI3K-activating cancer dependency up-regulated through DNA rearrangements or epigenetic mechanisms in multiple solid tumors. *Science advances*, 12(18), eaeb3503.

Showpnil IA, et al. (2026) De Novo Heterozygous ZFX Frameshift Variant in a Female With an X-Linked Neurodevelopmental Disorder. *American journal of medical genetics. Part A*, 200(2), 521.

Sada H, et al. (2026) Colon-Restricted Phosphatase and Tensin Homolog Deleted From Chromosome 10 Haploinsufficiency Models Phosphoinositide 3-Kinase Pathway-Driven Invasion in Colorectal Cancer. *Cellular and molecular gastroenterology and hepatology*, 20(9), 101773.

Moreno-Rodriguez T, et al. (2026) Convergent evolution of complex structural variants drives therapy resistance in metastatic prostate cancer. *Genome biology*, 27(1).

Lapunzina-Soler P, et al. (2026) Next-Generation Sequencing Defines a Molecularly Confirmed ARPKD Core Within the Broader PKHD1-Associated Disease Spectrum. *Genes*, 17(2).

Gutierrez C, et al. (2026) Mutant ribosomal protein RPS15 drives B cell malignancy through oxidative stress and genomic instability. *Nature communications*, 17(1).

Sussman JH, et al. (2026) A longitudinal single-cell and spatial multiomic atlas of pediatric high-grade glioma. *Cell reports. Medicine*, 7(5), 102766.

Tatsumi G, et al. (2026) Rapid Transcription Dynamics Confers Cytarabine Resistance in Acute Myeloid Leukemia. *Blood cancer discovery*, 7(4), 624.

Castellacci M, et al. (2026) Exploring the genetic diversity of Mediterranean fig trees highlights genes associated with fruit traits. *Frontiers in plant science*, 17, 1750632.

Lee H, et al. (2026) Multimodal antigenic escape to GPRC5D-targeted T cell engagers in multiple myeloma. *Nature medicine*, 32(3), 964.

Sørensen EE, et al. (2026) Molecular residual disease assessment in colorectal and bladder cancer by somatic structural variant analysis of cell-free DNA whole-genome sequencing data. *Journal of translational medicine*, 24(1).

Valentín López JC, et al. (2026) Evolution of AR and Non-AR Alterations in ctDNA of Patients with Metastatic Prostate Cancer Treated in the Phase III Alliance A031201 Trial. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 32(12), 2413.

McClelland P, et al. (2026) A multi-ancestry genetic reference for the Quebec population. *Nature communications*, 17(1), 1319.