

Resource Summary Report

Generated by [ASWG](#) on Aug 3, 2026

MuTect

RRID:SCR_000559

Type: Tool

Proper Citation

MuTect (RRID:SCR_000559)

Resource Information

URL: <http://www.broadinstitute.org/cancer/cga/mutect>

Proper Citation: MuTect (RRID:SCR_000559)

Description: Software for the reliable and accurate identification of somatic point mutations in next generation sequencing data of cancer genomes.

Abbreviations: MuTect

Synonyms: Mutect

Resource Type: software resource

Defining Citation: [PMID:23396013](#)

Keywords: next-generation sequencing, somatic mutation, tumor, normal, genome, bio.tools

Related Condition: Cancer

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

Resource Name: MuTect

Resource ID: SCR_000559

Alternate IDs: biotools:mutect, OMICS_00087

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

Record Creation Time: 20220129T080202+0000

Record Last Update: 20260801T190125+0000

Ratings and Alerts

No rating or validation information has been found for MuTect.

No alerts have been found for MuTect.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 91 mentions in open access literature.

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

Arenillas C, et al. (2025) Convergent Genetic Adaptation in Human Tumors Developed Under Systemic Hypoxia and in Populations Living at High Altitudes. *Cancer discovery*, 15(5), 1037.

Xie D, et al. (2025) Deciphering genomic evolution of metastatic organotropism with 535 paired primary lung cancers and metastases. *Cell reports*, 44(10), 116449.

Garcia GL, et al. (2025) Aged and BRCA-Mutated Stromal Cells Drive Epithelial Cell Transformation. *Cancer discovery*, 15(6), 1203.

Sun X, et al. (2025) Targeting PRMT1 Reduces Cancer Persistence and Tumor Relapse in EGFR- and KRAS-Mutant Lung Cancer. *Cancer research communications*, 5(1), 119.

Roush SM, et al. (2025) Shared genomic features of HIV+???diffuse large B-cell lymphoma in two African cohorts. *Scientific reports*, 15(1), 24599.

Andersson N, et al. (2025) Tracing metastatic spread in pediatric solid tumors using copy number and targeted deep sequencing. *The Journal of pathology*.

Ishino T, et al. (2025) Immunopectidomics combined with full-length transcriptomics uncovers diverse neoantigens. *Cell reports*, 45(1), 116781.

Chauhan PS, et al. (2025) Genomic and Epigenomic Analysis of Plasma Cell-Free DNA Identifies Stemness Features Associated with Worse Survival in Lethal Prostate Cancer. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 31(1), 151.

Fiorica PN, et al. (2025) Germline Pathogenic DROSHA Variants Are Linked to Pineoblastoma and Wilms Tumor Predisposition. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 31(8), 1491.

Lu Y, et al. (2025) Intrahepatic Microbial Heterogeneity in Multifocal Hepatocellular Carcinoma and Its Association with Host Genomic and Transcriptomic Alterations. *Cancer discovery*, 15(8), 1630.

Minami S, et al. (2025) Auditory neuropathy spectrum disorder and related auditory features in patients with hearing loss associated with the MT-TS1 m.7471dup variant. *Mitochondrion*, 84, 102056.

Persaud N, et al. (2025) Clinical Significance of TERT Promoter Mutations in Neuroblastoma. *JCO precision oncology*, 9, e2500074.

Peng T, et al. (2025) Individualized patient tumor organoids faithfully preserve human brain tumor ecosystems and predict patient response to therapy. *Cell stem cell*, 32(4), 652.

Liu M, et al. (2025) Sex disparities in the association between rare earth elements exposure and genetic mutation frequencies in lung cancer patients. *Scientific reports*, 15(1), 2185.

Black JRM, et al. (2025) Ultrasensitive ctDNA detection for preoperative disease stratification in early-stage lung adenocarcinoma. *Nature medicine*, 31(1), 70.

Garcia-Murillas I, et al. (2025) Whole genome sequencing-powered ctDNA sequencing for breast cancer detection. *Annals of oncology : official journal of the European Society for Medical Oncology*, 36(6), 673.

Varadarajan K, et al. (2025) Efficacy of ATR Kinase Inhibitor Elimusertib Monotherapy or Combination in Tumors with DNA Damage Response Pathway and Other Genomic Alterations. *Molecular cancer therapeutics*, 24(9), 1402.

Sun Y, et al. (2024) Integrated multi-omics profiling to dissect the spatiotemporal evolution of metastatic hepatocellular carcinoma. *Cancer cell*, 42(1), 135.

Liu M, et al. (2024) Unveiling the metal mutation nexus: Exploring the genomic impacts of heavy metal exposure in lung adenocarcinoma and colorectal cancer. *Journal of hazardous materials*, 461, 132590.

Pareja F, et al. (2024) A Genomics-Driven Artificial Intelligence-Based Model Classifies Breast Invasive Lobular Carcinoma and Discovers CDH1 Inactivating Mechanisms. *Cancer research*, 84(20), 3478.