

Resource Summary Report

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OpenComet

RRID:SCR_021826

Type: Tool

Proper Citation

OpenComet (RRID:SCR_021826)

Resource Information

URL: <https://cometbio.org/>

Proper Citation: OpenComet (RRID:SCR_021826)

Description: Software tool to quantify comet parameters while studying DNA strand breaks. Automated tool for comet assay image analysis.

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

Defining Citation: [PMID:24624335](#)

Keywords: quantify comet parameters, DNA strand breaks, comet assay image analysis

Availability: Free, Available for download, Freely available

Resource Name: OpenComet

Resource ID: SCR_021826

Record Creation Time: 20220129T080357+0000

Record Last Update: 20260812T044413+0000

Ratings and Alerts

No rating or validation information has been found for OpenComet.

No alerts have been found for OpenComet.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 55 mentions in open access literature.

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

Tan GYT, et al. (2026) BMAL2 is a druggable target for ovarian clear cell carcinoma (OCCC). *EMBO molecular medicine*, 18(5), 1933.

George J, et al. (2026) Single-cell transcriptomics reveals FXR1 as an actionable target for siRNA therapy in ovarian cancer. *Nature communications*, 17(1).

Mavroeidi D, et al. (2026) ATR Blockade Potentiates the Effects of Genotoxic Agents In Vitro and Promotes Antitumor Immunity in a Mouse Model of Non-Small Cell Lung Cancer. *Cancers*, 18(5).

Wang D, et al. (2026) PRMT5 is Frequently Upregulated and a Potential Therapeutic Target in MTAP-deficient Malignant Peripheral Nerve Sheath Tumors. *bioRxiv : the preprint server for biology*.

Tanka AT, et al. (2026) Integrative CRISPR Screening and RNA Analyses Discover an Essential Role for PUF60 Interactions with 3' Splice Sites in Cancer Progression. *Cancer research*, 86(7), 1586.

Pastrana CC, et al. (2026) Nonsense-Mediated RNA Decay Is a Targetable Vulnerability in Splicing Factor Mutant Myeloid Neoplasms by Enhancing R-Loop Accumulation and DNA Damage. *Cancer research*, 86(14), 3537.

Yapindi L, et al. (2026) Dual Inhibition of TRIP13 and Aurora A Induces Mitotic DNA Damage and Concurrent Pyroptotic-Apoptotic Cell Death in Rb-Deficient Cancer Cells. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 32(14), 3043.

Wu L, et al. (2025) Evaluating H2BC9 as a potential diagnostic and prognostic biomarker in head and neck squamous cell carcinoma. *European journal of medical research*, 30(1), 54.

Ribeiro DL, et al. (2025) Alkaline Bromodeoxyuridine (BrdU) Comet Assay to Detect Replication-Associated DNA Damage. *Current protocols*, 5(12), e70275.

Xu Y, et al. (2025) NSUN5 Mediates Resistance to Doxorubicin via Up-regulation of DNA Damage Repair Proteins BRCA2 and BRIP1 in Colorectal Cancer. *The American journal of pathology*, 195(10), 1921.

Malamos P, et al. (2025) DNA Damage Response and Redox Status in the Resistance of Multiple Myeloma Cells to Genotoxic Treatment. *International journal of molecular sciences*, 26(20).

Jin C, et al. (2024) The dimeric deubiquitinase USP28 integrates 53BP1 and MYC functions to limit DNA damage. *Nucleic acids research*, 52(6), 3011.

Ahmad T, et al. (2024) RAD18- and BRCA1-dependent pathways promote cellular tolerance to the nucleoside analog ganciclovir. *Genes to cells : devoted to molecular & cellular mechanisms*, 29(11), 935.

Walton B, et al. (2024) Obesity Induces DNA Damage in Mammary Epithelial Cells Exacerbated by Acrylamide Treatment through CYP2E1-Mediated Oxidative Stress. *Toxics*, 12(7).

Elvira-Blázquez D, et al. (2024) YTHDC1 m6A-dependent and m6A-independent functions converge to preserve the DNA damage response. *The EMBO journal*, 43(16), 3494.

Stuart A, et al. (2024) Replicative senescence is ATM driven, reversible, and accelerated by hyperactivation of ATM at normoxia. *bioRxiv : the preprint server for biology*.

Mavroeidi D, et al. (2024) DNA Damage Response Network and Intracellular Redox Status in the Clinical Outcome of Patients with Lung Cancer. *Cancers*, 16(24).

Statello L, et al. (2024) The chromatin-associated IncREST ensures effective replication stress response by promoting the assembly of fork signaling factors. *Nature communications*, 15(1), 978.

Muñoz S, et al. (2024) RAD51 restricts DNA over-replication from re-activated origins. *The EMBO journal*, 43(6), 1043.

Soroko SS, et al. (2024) The Dose Rate of Corpuscular Ionizing Radiation Strongly Influences the Severity of DNA Damage, Cell Cycle Progression and Cellular Senescence in Human Epidermoid Carcinoma Cells. *Current issues in molecular biology*, 46(12), 13860.