

Resource Summary Report

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CCTop

RRID:SCR_016890

Type: Tool

Proper Citation

CCTop (RRID:SCR_016890)

Resource Information

URL: <https://crispr.cos.uni-heidelberg.de/>

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Description: Web tool for CRISPR/Cas9 target prediction. Identifies and ranks all candidate sgRNA target sites according to their off-target quality and displays full documentation.

Resource Type: data processing software, data analysis software, software resource, software application, service resource, web application

Defining Citation: [PMID:25909470](#)

Keywords: CRISPR, Cas9, target, prediction, sgRNA, site, data

Funding: European Research Council ;
German Research Foundation

Resource Name: CCTop

Resource ID: SCR_016890

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Record Last Update: 20260805T044400+0000

Ratings and Alerts

No rating or validation information has been found for CCTop.

No alerts have been found for CCTop.

Data and Source Information

Usage and Citation Metrics

We found 110 mentions in open access literature.

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

Kyrychenko V, et al. (2025) Holoprosencephaly and cyclopia in bmp7b and bmpr1ba Crispant zebrafish. *Animal cells and systems*, 29(1), 16.

Furch ACU, et al. (2025) Transformation of flg22 perception into electrical signals decoded in vasculature leads to sieve tube blockage and pathogen resistance. *Science advances*, 11(9), eads6417.

Hoisington ZW, et al. (2025) Prosapip1 (encoded by the Lzts3 gene) in the dorsal hippocampus mediates synaptic protein composition, long-term potentiation, and spatial memory. *eLife*, 13.

Xu Q, et al. (2025) UBIQUITIN-CONJUGATING ENZYME34 mediates pyrophosphatase AVP1 turnover and regulates abiotic stress responses in Arabidopsis. *Plant physiology*, 197(2).

Luanpitpong S, et al. (2024) OGT and OGA gene-edited human induced pluripotent stem cells for dissecting the functional roles of O-GlcNAcylation in hematopoiesis. *Frontiers in cell and developmental biology*, 12, 1361943.

Liang Z, et al. (2024) ALKBH5 governs human endoderm fate by regulating the DKK1/4-mediated Wnt/ β -catenin activation. *Nucleic acids research*, 52(18), 10879.

Cui L, et al. (2024) Streptococcus pneumoniae extracellular vesicles aggravate alveolar epithelial barrier disruption via autophagic degradation of OCLN (occludin). *Autophagy*, 20(7), 1577.

Shan Y, et al. (2024) METTL3/METTL14 maintain human nucleoli integrity by mediating SUV39H1/H2 degradation. *Nature communications*, 15(1), 7186.

Zhang C, et al. (2024) HBO1 determines SMAD action in pluripotency and mesendoderm specification. *Nucleic acids research*, 52(9), 4935.

Ding X, et al. (2024) DNALI1 Promotes Neurodegeneration after Traumatic Brain Injury via Inhibition of Autophagosome-Lysosome Fusion. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 11(15), e2306399.

Yao ZQ, et al. (2024) The potential of HBV cure: an overview of CRISPR-mediated HBV gene disruption. *Frontiers in genome editing*, 6, 1467449.

Kalidasan V, et al. (2024) Investigating D-Amino Acid Oxidase Expression and Interaction Network Analyses in Pathways Associated With Cellular Stress: Implications in the Biology of Aging. *Bioinformatics and biology insights*, 18, 11779322241234772.

Zhu YJ, et al. (2024) Combinatorial expression of β -protocadherins regulates synaptic connectivity in the mouse neocortex. *eLife*, 12.

Omata Y, et al. (2023) Essentiality of *Nfatc1* short isoform in osteoclast differentiation and its self-regulation. *Scientific reports*, 13(1), 18797.

Kucińska MK, et al. (2023) TMX4-driven LINC complex disassembly and asymmetric autophagy of the nuclear envelope upon acute ER stress. *Nature communications*, 14(1), 3497.

Hastings JF, et al. (2023) Memory of stochastic single-cell apoptotic signaling promotes chemoresistance in neuroblastoma. *Science advances*, 9(9), eabp8314.

Chisada S, et al. (2023) A *rad50* germline mutation induces tumorigenesis and ataxia-telangiectasia phenotype in a transparent medaka model. *PloS one*, 18(4), e0282277.

Ng M, et al. (2023) Myeloid leukemia vulnerabilities embedded in long noncoding RNA locus MYNRL15. *iScience*, 26(10), 107844.

Akram F, et al. (2022) CRISPR/Cas9: A revolutionary genome editing tool for human cancers treatment. *Technology in cancer research & treatment*, 21, 15330338221132078.

Yang H, et al. (2022) CRISPR/Cas9-induced saturated mutagenesis identifies *Rad51* haplotype as a marker of PARP inhibitor sensitivity in breast cancer. *Molecular medicine reports*, 26(2).