

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/>

Proper Citation: CCTop (RRID:SCR_016890)

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 analysis software, data processing software, service resource, software application, software 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

Record Creation Time: 20220129T080332+0000

Record Last Update: 20260829T182525+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 130 mentions in open access literature.

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

Xie Y, et al. (2026) A Mechano-Feedback Loop Orchestrated by SUN1/2 Governs Cellular Mechanoadaptation via Lamina-Associated Domain Remodeling. Research (Washington, D.C.), 9, 1259.

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

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.

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

Seo D, et al. (2024) Dihydrotestosterone Enhances MICA-Mediated Immune Responses to Epstein-Barr Virus-Associated Gastric Carcinoma. Cancers, 16(18).

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.

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

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.

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

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

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 γ -protocadherins regulates synaptic connectivity in the mouse neocortex. eLife, 12.

Lv J, et al. (2023) Epigenetic landscape reveals MECOM as an endothelial lineage regulator. Nature communications, 14(1), 2390.

Bulk J, et al. (2023) Holoprosencephaly with a Special Form of Anophthalmia Result from Experimental Induction of bmp4, Oversaturating BMP Antagonists in Zebrafish. International journal of molecular sciences, 24(9).

Chohra I, et al. (2023) Generation of a Well-Characterized Homozygous Chromodomain-Helicase-DNA-Binding Protein 4G1003D Mutant hESC Line Using CRISPR/eCas9 (ULIEGEe001-A-1). International journal of molecular sciences, 24(13).

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.

Zhai W, et al. (2023) IL-6 Mutation Attenuates Liver Injury Caused by Aeromonas hydrophila Infection by Reducing Oxidative Stress in Zebrafish. International journal of molecular sciences, 24(24).