

Resource Summary Report

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E-CRISP

RRID:SCR_019088

Type: Tool

Proper Citation

E-CRISP (RRID:SCR_019088)

Resource Information

URL: <http://www.e-crisp.org/E-CRISP/>

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Description: Web application to design gRNA sequences. Uses algorithms to identify sgRNA target sequences in any nucleotide sequence for use in CRISPR/Cas mediated genome editing. Used for fast CRISPR target site identification. Enables designing of multiple libraries and creates genome scale libraries for several organisms in few hours.

Resource Type: software resource, data access protocol, web service

Defining Citation: [PMID:24481216](#)

Keywords: gRNA sequence design, sgRNA target sequence identification, CRISPR, CRISPR/Cas mediated genome editing, library design, multiple libraries, genome scale libraries, bio.tools

Funding: European Research Council Advanced Grant of the European Commission

Availability: Free, Freely available

Resource Name: E-CRISP

Resource ID: SCR_019088

Alternate IDs: biotools:e-crisp

Alternate URLs: <https://bio.tools/e-crisp>

Record Creation Time: 20220129T080343+0000

Record Last Update: 20260801T190628+0000

Ratings and Alerts

No rating or validation information has been found for E-CRISP.

No alerts have been found for E-CRISP.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 129 mentions in open access literature.

Listed below are recent publications. The full list is available at [T1D](#).

Yang W, et al. (2025) The TaCLE24b peptide signaling cascade modulates lateral root development and drought tolerance in wheat. *Nature communications*, 16(1), 1952.

Du D, et al. (2025) The Transcription Factor WFZP Interacts with the Chromatin Remodeler TaSYD to Regulate Root Architecture and Nitrogen Uptake Efficiency in Wheat. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 12(15), e2416433.

Okauchi N, et al. (2025) CXCL8 mediates macrophage migration in canine oral malignant melanoma. *Scientific reports*, 15(1), 38854.

Ford CA, et al. (2025) Targeting the PREX2/RAC1/PI3K?? Signaling Axis Confers Sensitivity to Clinically Relevant Therapeutic Approaches in Melanoma. *Cancer research*, 85(4), 808.

Saha D, et al. (2025) Critical considerations and computational tools in plant genome editing. *Heliyon*, 11(1), e41135.

Kuehl J, et al. (2025) Genetic inactivation of FAAP100 causes Fanconi anemia due to disruption of the monoubiquitin ligase core complex. *The Journal of clinical investigation*, 135(11).

Wang Y, et al. (2025) Genome editing in spinocerebellar ataxia type 3 cells improves Golgi apparatus structure. *Scientific reports*, 15(1), 12106.

Xing Y, et al. (2025) An RNA helicase coordinates with iron signal regulators to alleviate chilling stress in Arabidopsis. *Nature communications*, 16(1), 3988.

Zhang X, et al. (2025) BFD2 mediates inflammation, apoptosis, and pre-anxiety-like behaviors induced by acute *Toxoplasma gondii* infection. *PLoS neglected tropical diseases*, 19(9), e0013428.

Chang S, et al. (2025) Lysine deacetylase TaSRT1 mediates wheat drought tolerance by deacetylating TaDT-A to reduce its protein stability and transcriptional activity. *Plant biotechnology journal*, 23(5), 1650.

Liu J, et al. (2025) Decoupling the pleiotropic effects of VRT-A2 during reproductive development enhances wheat grain length and weight. *The Plant cell*, 37(2).

Chen S, et al. (2025) p53 transcriptionally activates DCP1B to suppress tumor progression and enhance tumor sensitivity to PI3K blockade in non-small cell lung cancer. *Cell death and differentiation*, 32(9), 1722.

Wang HP, et al. (2025) Lacosamide Is a Novel Drug That Improves AGTPBP1 Knockout-Mediated Impairment of Neuronal and Dopaminergic Function. *Molecular neurobiology*, 62(9), 11986.

Zhong XC, et al. (2025) Hsa_circ_0026782 Acts as a "Molecular Break" of CREB1-Mediated Transcription by Promoting Its Phosphorylation at Ser142 That Prevents Keloid Progression. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 12(40), e08647.

Zhang B, et al. (2025) Phytochrome B and phytochrome-interacting-factor4 modulate tree seasonal growth in cold environments. *Nature communications*, 16(1), 8114.

Meng H, et al. (2025) Regulatory Programmes Driving Suberin Plasticity Under Aluminium Stress in Barley Roots. *Plant, cell & environment*, 48(11), 7775.

Wu Z, et al. (2025) SMUG1 promoted the progression of pancreatic cancer via AKT signaling pathway through binding with FOXQ1. *Chinese medical journal*, 138(20), 2640.

Yang Y, et al. (2025) DNAJC12 downregulation induces neuroblastoma progression via increased histone H4K5 lactylation. *Journal of molecular cell biology*, 16(11).

Cao J, et al. (2024) Natural variation of STKc_GSK3 kinase TaSG-D1 contributes to heat stress tolerance in Indian dwarf wheat. *Nature communications*, 15(1), 2097.

Shen S, et al. (2024) Tripartite Motif-Containing Protein 65 (TRIM65) Inhibits Hepatitis B Virus Transcription. *Viruses*, 16(6).