

Resource Summary Report

Generated by [SPARC SAWG](#) on Aug 9, 2026

CRISPR-ERA

RRID:SCR_018710

Type: Tool

Proper Citation

CRISPR-ERA (RRID:SCR_018710)

Resource Information

URL: <http://crispr-era.stanford.edu/index.jsp>

Proper Citation: CRISPR-ERA (RRID:SCR_018710)

Description: Software comprehensive design tool for CRISPR mediated gene editing, repression and activation. Fast and comprehensive guide RNA design tool for genome editing, repression and activation. Used for automated genome wide sgRNA design.

Synonyms: CRISP-Editing, Repression and Activation

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

Defining Citation: [PMID:26209430](#)

Keywords: Design tool, CRISPR mediated gene editing, gene repression, gene activation, guide RNA design, genome, automated genome, sgRNA design, bio.tools

Funding: NIH Office of The Director ;
NIDCR ;
NSFC ;
FANEDD ;
NIH Office of the Director OD017887;
NIDA R01 DA036858

Availability: Free, Freely available

Resource Name: CRISPR-ERA

Resource ID: SCR_018710

Alternate IDs: biotools:CRISPR-ERA

Alternate URLs: <https://bio.tools/CRISPR-ERA>

Record Creation Time: 20220129T080341+0000

Record Last Update: 20260808T190121+0000

Ratings and Alerts

No rating or validation information has been found for CRISPR-ERA.

No alerts have been found for CRISPR-ERA.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 13 mentions in open access literature.

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

Li R, et al. (2026) HCMV encoded UL84 hijacks FHL2 to suppress type I interferon production and enhance viral replication. PLoS pathogens, 22(1), e1013895.

Ma Y, et al. (2026) Deuterium modification of tyrosine kinase inhibitors contributes to reversing ferroptosis resistance through upregulation of aldehyde oxidase 1 in hepatocellular carcinoma. Acta pharmaceutica Sinica. B, 16(2), 802.

Wu P, et al. (2025) FOXK2 in skeletal muscle development: a new pathogenic gene for congenital myopathy with ptosis. EMBO molecular medicine, 17(7), 1599.

Wen X, et al. (2025) Depalmitoylase ABHD16A negatively regulates the anti-hepatitis B virus activity of IFITM1. Microbiology spectrum, 13(7), e0309524.

Liao W, et al. (2025) Long non-coding RNA enhances SARS-CoV-2-mediated apoptosis through epigenetic repression of angiotensin-converting enzyme 2. The Journal of biological chemistry, 301(12), 110812.

Xingya Z, et al. (2024) BsuMI regulates DNA transformation in Bacillus subtilis besides the defense system and the constructed strain with BsuMI-absence is applicable as a universal transformation platform for wild-type Bacillus. Microbial cell factories, 23(1), 225.

Weng C, et al. (2024) The PDIA3-STAT3 protein complex regulates IBS formation and development via CTSS/MHC-II pathway-mediated intestinal inflammation. Heliyon, 10(17), e36357.

Sharma AK, et al. (2024) Engineering CRISPR/Cas9 therapeutics for cancer precision medicine. Frontiers in genetics, 15, 1309175.

Gooden AA, et al. (2021) dbGuide: a database of functionally validated guide RNAs for genome editing in human and mouse cells. Nucleic acids research, 49(D1), D871.

Motosugi N, et al. (2021) Deletion of lncRNA XACT does not change expression dosage of X-linked genes, but affects differentiation potential in hPSCs. *Cell reports*, 35(10), 109222.

Michels BE, et al. (2020) Pooled In Vitro and In Vivo CRISPR-Cas9 Screening Identifies Tumor Suppressors in Human Colon Organoids. *Cell stem cell*, 26(5), 782.

Zhao X, et al. (2020) Multiplex genetic engineering improves endogenous expression of mesophilic α -amylase gene in a wild strain *Bacillus amyloliquefaciens* 205. *International journal of biological macromolecules*, 165(Pt A), 609.

Min YQ, et al. (2020) A RIG-I-like receptor directs antiviral responses to a bunyavirus and is antagonized by virus-induced blockade of TRIM25-mediated ubiquitination. *The Journal of biological chemistry*, 295(28), 9691.