

Resource Summary Report

Generated by [NIF](#) on May 21, 2025

Benchling

RRID:SCR_013955

Type: Tool

Proper Citation

Benchling (RRID:SCR_013955)

Resource Information

URL: <https://benchling.com>

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Description: An online resource which helps researchers manage and organize labs and experimental results by supplying molecular biology software tools for experimental design and data analysis. Benchling provides tools for functions such as primer design and colony counting as well as CRISPR guide design and automated Gibson and Golden Gate cloning. Users can take notes in line with data, link data across entries, keep files and data in one place, and manage and keep track of team progress. An enterprise version of Benchling is available for scientists working within an organization with additional administrative, compliance, and security protocols.

Resource Type: computational hosting, software resource, web application, service resource

Keywords: web application, computational hosting, lab management, organization, collaboration, Crispr

Funding: Andreessen Horowitz

Availability: Free, Public

Resource Name: Benchling

Resource ID: SCR_013955

License URLs: <https://benchling.com/terms>

Record Creation Time: 20220129T080318+0000

Record Last Update: 20250521T061519+0000

Ratings and Alerts

No rating or validation information has been found for Benchling.

No alerts have been found for Benchling.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1007 mentions in open access literature.

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

Mehri S, et al. (2025) Identification of viral protease-dependent cleavage sites within the human astrovirus polyprotein. *Journal of virology*, 99(1), e0132124.

Das S, et al. (2025) Constitutive expression of Cas9 and rapamycin-inducible Cre recombinase facilitates conditional genome editing in *Plasmodium berghei*. *Scientific reports*, 15(1), 2949.

Gridina M, et al. (2025) Targeted correction of megabase-scale CNTN6 duplication in induced pluripotent stem cells and impacts on gene expression. *PeerJ*, 13, e18567.

Milligan C, et al. (2025) Enhanced Interleukin 6 Trans-Signaling Modulates Disease Process in Amyotrophic Lateral Sclerosis Mouse Models. *Brain sciences*, 15(1).

Mohamed HABE, et al. (2025) A novel method for telomere length detection in fission yeast. *FEMS yeast research*, 25.

Aydin A, et al. (2025) CRISPR-mediated mutation of cytokinin signaling genes (SIHP2 and SIHP3) in tomato: Morphological, physiological, and molecular characterization. *The plant genome*, 18(1), e20542.

Sun Y, et al. (2025) TRIF-TAK1 signaling suppresses caspase-8/3-mediated GSDMD/E activation and pyroptosis in influenza A virus-infected airway epithelial cells. *iScience*, 28(1), 111581.

Halasa M, et al. (2025) Loss of Sirtuin 7 impairs cell motility and proliferation and enhances S-phase cell arrest after 5-fluorouracil treatment in head and neck cancer. *Scientific reports*,

15(1), 2123.

Pidgeon R, et al. (2025) Diet-derived urolithin A is produced by a dehydroxylase encoded by human gut *Enterocloster* species. *Nature communications*, 16(1), 999.

Landwehr GM, et al. (2025) Accelerated enzyme engineering by machine-learning guided cell-free expression. *Nature communications*, 16(1), 865.

Melero-Cobo X, et al. (2025) MoCloro: an extension of the *Chlamydomonas reinhardtii* modular cloning toolkit for microalgal chloroplast engineering. *Physiologia plantarum*, 177(1), e70088.

Shpitzen S, et al. (2025) Characterization of LTBP2 mutation causing mitral valve prolapse. *European heart journal open*, 5(1), oea106.

Ferdigg A, et al. (2025) Membrane transporters modulating the toxicity of arsenic, cadmium, and mercury in human cells. *Life science alliance*, 8(2).

Walker E.J.L., et al. (2025) Cloning a Chloroplast Genome in *Saccharomyces cerevisiae* and *Escherichia coli*. *Bio-protocol*, 15(2), e5162.

Di Cristina G, et al. (2025) Pioneering genome editing in parthenogenetic stick insects: CRISPR/Cas9-mediated gene knockout in *Medauroidea extradentata*. *Scientific reports*, 15(1), 2584.

Singh S, et al. (2025) Biallelic variants in *CCN2* underlie an autosomal recessive kyphomelic dysplasia. *European journal of human genetics : EJHG*, 33(1), 30.

Debaenst S, et al. (2025) Crispant analysis in zebrafish as a tool for rapid functional screening of disease-causing genes for bone fragility. *eLife*, 13.

Frusteri Chiacchiera A, et al. (2025) Harnessing CRISPR interference to resensitize laboratory strains and clinical isolates to last resort antibiotics. *Scientific reports*, 15(1), 261.

Buric F, et al. (2025) Amino acid sequence encodes protein abundance shaped by protein stability at reduced synthesis cost. *Protein science : a publication of the Protein Society*, 34(1), e5239.

Yu C.I., et al. (2024) Engraftment of adult hematopoietic stem and progenitor cells in a novel model of humanized mice. *iScience*, 27(3), 109238.