CRISPy-web

RRID:SCR_017970
Type: Tool

Proper Citation

CRISPy-web (RRID:SCR_017970)

Resource Information

URL: https://crispy.secondarymetabolites.org

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Description: Web tool to design sgRNAs for CRISPR applications. Web tool based on CRISPy to design sgRNAs for any user-provided microbial genome. Implemented as standalone web application for Cas9 target prediction.

Synonyms: single guide RNA desing

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

Defining Citation: PMID:29062934

Keywords: Design, sgRNA, CRISP, microbial, genome, Cas9, target, prediction, data, guide, single, editing, bio.tools

Funding: Novo Nordisk Foundation

Availability: Free, Freely available

Resource Name: CRISPy-web

Resource ID: SCR_017970

Alternate IDs: biotools:crispy

Alternate URLs: https://bio.tools/crispy

Record Creation Time: 20220129T080338+0000

Ratings and Alerts

No rating or validation information has been found for CRISPy-web.

No alerts have been found for CRISPy-web.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 18 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Yang M, et al. (2024) Enhancement of acyl-CoA precursor supply for increased avermectin B1a production by engineering meilingmycin polyketide synthase and key primary metabolic pathway genes. Microbial biotechnology, 17(5), e14470.

Li X, et al. (2024) Metabolic engineering of Streptomyces roseosporus for increased production of clinically important antibiotic daptomycin. Microbial biotechnology, 17(11), e70038.

Krusenstjerna AC, et al. (2024) DnaA modulates the gene expression and morphology of the Lyme disease spirochete. bioRxiv : the preprint server for biology.

Zhang Y, et al. (2024) Simultaneous multiplex genome loci editing of Halomonas bluephagenesis using an engineered CRISPR-guided base editor. Synthetic and systems biotechnology, 9(3), 586.

Liu X, et al. (2023) Identification of multiple regulatory genes involved in TGase production in Streptomyces mobaraensis DSM 40587. Engineering microbiology, 3(4), 100098.

McLean TC, et al. (2023) Evidence of a role for CutRS and actinorhodin in the secretion stress response in Streptomyces coelicolor M145. Microbiology (Reading, England), 169(7).

Pankratz D, et al. (2023) An expanded CRISPR-Cas9-assisted recombineering toolkit for engineering genetically intractable Pseudomonas aeruginosa isolates. Nature protocols, 18(11), 3253.

Kim MS, et al. (2021) Cytosine Base Editor-Mediated Multiplex Genome Editing to Accelerate Discovery of Novel Antibiotics in Bacillus subtilis and Paenibacillus polymyxa. Frontiers in microbiology, 12, 691839.

Román-Hurtado F, et al. (2021) Biosynthesis and Heterologous Expression of Cacaoidin, the First Member of the Lanthidin Family of RiPPs. Antibiotics (Basel, Switzerland), 10(4).

Román-Hurtado F, et al. (2021) One Pathway, Two Cyclic Non-Ribosomal Pentapeptides: Heterologous Expression of BE-18257 Antibiotics and Pentaminomycins from Streptomyces cacaoi CA-170360. Microorganisms, 9(1).

Ntie-Kang F, et al. (2021) Computational Applications in Secondary Metabolite Discovery (CAiSMD): an online workshop. Journal of cheminformatics, 13(1), 64.

Antao AM, et al. (2020) Disease modeling and stem cell immunoengineering in regenerative medicine using CRISPR/Cas9 systems. Computational and structural biotechnology journal, 18, 3649.

Prudence SMM, et al. (2020) Advances in actinomycete research: an ActinoBase review of 2019. Microbiology (Reading, England), 166(8), 683.

Tian J, et al. (2020) Developing an endogenous quorum-sensing based CRISPRi circuit for autonomous and tunable dynamic regulation of multiple targets in Streptomyces. Nucleic acids research, 48(14), 8188.

Lu T, et al. (2020) Sulfane sulfur-activated actinorhodin production and sporulation is maintained by a natural gene circuit in Streptomyces coelicolor. Microbial biotechnology, 13(6), 1917.

Tong Y, et al. (2020) Natural products research in the modern age. Synthetic and systems biotechnology, 5(4), 314.

Blin K, et al. (2020) Designing sgRNAs for CRISPR-BEST base editing applications with CRISPy-web 2.0. Synthetic and systems biotechnology, 5(2), 99.

Tong Y, et al. (2020) CRISPR-Cas9, CRISPRi and CRISPR-BEST-mediated genetic manipulation in streptomycetes. Nature protocols, 15(8), 2470.