Resource Summary Report

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Eukaryotic Pathogen CRISPR guide RNA/DNA Design Tool

RRID:SCR_018297
Type: Tool

Proper Citation

Eukaryotic Pathogen CRISPR guide RNA/DNA Design Tool (RRID:SCR_018297)

Resource Information

URL: http://grna.ctegd.uga.edu/

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Description: Web tool tailored to design CRISPR guide RNAs for Eukaryotic pathogens. Used to identify gRNAs in input sequence, and then calculate ranked list of those gRNAs based on on-target and off-target hits in selected or uploaded pathogen genome, to predict gRNA activity and to identified microhomology pairs flanking gRNA targeted cut site.

Abbreviations: EuPaGDT

Synonyms: Eukaryotic Pathogen gRNA Design Tool, CRISPR/Cas gRNA design tool

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

Defining Citation: PMID:28348817

Keywords: CRISPR-Cas9, eukaryotic pathogens, genome editing, gRNA design, gRNA input sequence, pathogen genome, identify microhomology pairs

Availability: Free, Freely available

Resource Name: Eukaryotic Pathogen CRISPR guide RNA/DNA Design Tool

Resource ID: SCR_018297

Record Creation Time: 20220129T080339+0000

Record Last Update: 20260905T132834+0000

Ratings and Alerts

No rating or validation information has been found for Eukaryotic Pathogen CRISPR guide RNA/DNA Design Tool.

No alerts have been found for Eukaryotic Pathogen CRISPR guide RNA/DNA Design Tool.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 167 mentions in open access literature.

Listed below are recent publications. The full list is available at RRID .

Tahiri G, et al. (2026) A BRCT domain-containing protein induced in early phagocytosis plays a crucial role in the pathogenesis of the mucoralean Rhizopus microsporus. PLoS pathogens, 22(1), e1013653.

Okoye IC, et al. (2026) ATAD3 megadalton complex in Plasmodium falciparum is essential for mitochondrial and cellular viability. PLoS pathogens, 22(6), e1014317.

Wang X, et al. (2026) The autophagy-related protein PlAtg26b regulates vegetative growth, reproductive processes, autophagy, and pathogenicity in Peronophythora litchii. Virulence, 17(1), 2606498.

Yuan X, et al. (2026) Role of ergosterol biosynthesis in growth, drug sensitivity, and host colonization of honey bee trypanosomatid parasite, Lotmaria passim. FEMS microbes, 7, xtag020.

Ma Q, et al. (2026) The Oligosaccharyltransferase Catalytic Subunit PsSTT3B Is Required for Asexual Development and Pathogenicity in Phytophthora sojae. Journal of fungi (Basel, Switzerland), 12(4).

Vieira CSD, et al. (2026) Glycosomal Phosphoenolpyruvate Carboxykinase CRISPR/Cas9-Deletion and Its Role in Trypanosoma cruzi Metacyclogenesis and Infectivity in Mammalian Host. FASEB journal : official publication of the Federation of American Societies for Experimental Biology, 40(6), e71672.

Obado SO, et al. (2026) Division of labor in trypanosome RNA processing and export through expanded Mex67 paralogs. Nucleic acids research, 54(1).

Carnielli JBT, et al. (2026) Chemical genetics reveals Leishmania KKT2 and CRK9 kinase activity is required for cell cycle progression. PLoS pathogens, 22(5), e1014194.

Carver M, et al. (2026) Septins regulate cytokinesis and multicellular development in the closest living relatives of animals. bioRxiv : the preprint server for biology.

Jonsdottir TK, et al. (2026) Plasmodium berghei High-Throughput (PbHiT): a CRISPR-Cas9 System to Study Genes at Scale. Bio-protocol, 16(2), e5572.

Hao H, et al. (2026) Unlocking the Potential for Genetic Engineering of the Straw-Degrading Mushroom Stropharia rugosoannulata by Constructing a CRISPR/Cas9 Gene Editing System. Journal of fungi (Basel, Switzerland), 12(4).

Liu M, et al. (2026) OmniEdit: A unified CRISPR/Cas9 platform for precise genome engineering and strain optimization of the Cordyceps militaris cell factory. Synthetic and systems biotechnology, 14, 255.

Paul S, et al. (2025) RPA-assisted CRISPR-Cas12a-enabled point-of-care diagnostic platform for chili leaf curl virus with fluorescent and colorimetric readouts. Frontiers in microbiology, 16, 1644322.

Ahmed M, et al. (2025) Cyclic AMP compartmentalization drives signal specificity to control vector colonization and mammalian host infection by American trypanosomes. bioRxiv : the preprint server for biology.

Haase R, et al. (2025) RNG2 tethers the conoid to the apical polar ring in Toxoplasma gondii to enable parasite motility and invasion. PLoS biology, 23(11), e3003506.

Shu F, et al. (2025) Calcium-dependent protein kinases 2A involved in the growth of both asexual and sexual stages of Cryptosporidium parvum. PLoS neglected tropical diseases, 19(5), e0013107.

Chen X, et al. (2025) The Major Facilitator Superfamily Transporter HAP12 Is Critical in Toxoplasma gondii Survival and Virulence. International journal of molecular sciences, 26(8).

Saenz-Garcia JL, et al. (2025) Kharon Is Crucial for Trypanosoma cruzi Morphology but Does Not Impair In Vitro Infection. Pathogens (Basel, Switzerland), 14(4).

Li F, et al. (2025) Involvement of a variant secretory protein in virulence of emerging Cryptosporidium parvum subtypes. Virulence, 16(1), 2514077.

Franconi I, et al. (2025) The S862C amino acid change in CpMrr1 confers fluconazole resistance in Candida parapsilosis. JAC-antimicrobial resistance, 7(3), dlaf051.