

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 [Kravitz](#) .

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 PIAtg26b regulates vegetative growth, reproductive processes, autophagy, and pathogenicity in *Peronophythora litchii*. *Virulence*, 17(1), 2606498.

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).

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.

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.

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

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.

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

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

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.

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).

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.

Zou Y, et al. (2025) Emerging Trichomonad Infections in Companion Animals: Rapid Visual Detection of *Pentatrichomonas hominis* and *Tritrichomonas foetus* Using an RPA-CRISPR/Cas12a Assay. *Transboundary and emerging diseases*, 2025, 9995679.