

Resource Summary Report

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WormSizer

RRID:SCR_015824

Type: Tool

Proper Citation

WormSizer (RRID:SCR_015824)

Resource Information

URL: <https://github.com/bradtmoore/wormsizer>

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Description: Software plug-in for ImageJ that allows users to determine the size of worms. It can calculate volume, surface area, and other parameters of worm specimens.

Resource Type: software application, data processing software, image analysis software, software resource

Defining Citation: [PMID:29063832](#)

Keywords: worm, measuring software, c. elegans, nematode, volume, surface area

Funding:

Availability: Free, Available for download, Demo available

Resource Name: WormSizer

Resource ID: SCR_015824

License: BSD 2 License

Record Creation Time: 20220129T080327+0000

Record Last Update: 20250403T061147+0000

Ratings and Alerts

No rating or validation information has been found for WormSizer.

No alerts have been found for WormSizer.

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 [dkNET](#).

King DE, et al. (2024) Lack of detectable sex differences in the mitochondrial function of *Caenorhabditis elegans*. *BMC ecology and evolution*, 24(1), 55.

Falsztyn IB, et al. (2024) Developmental and conditional regulation of DAF-2/INSR ubiquitination in *Caenorhabditis elegans*. *bioRxiv : the preprint server for biology*.

Misare KR, et al. (2023) The consequences of tetraploidy on *Caenorhabditis elegans* physiology and sensitivity to chemotherapeutics. *Scientific reports*, 13(1), 18125.

Webster AK, et al. (2022) Using population selection and sequencing to characterize natural variation of starvation resistance in *Caenorhabditis elegans*. *eLife*, 11.

Chen J, et al. (2022) Genetic analysis of *daf-18/PTEN* missense mutants for starvation resistance and developmental regulation during *Caenorhabditis elegans* L1 arrest. *G3 (Bethesda, Md.)*, 12(6).

Webster AK, et al. (2022) Alternative somatic and germline gene-regulatory strategies during starvation-induced developmental arrest. *Cell reports*, 41(2), 111473.

Gonzalez-Hunt CP, et al. (2021) Multiple metabolic changes mediate the response of *Caenorhabditis elegans* to the complex I inhibitor rotenone. *Toxicology*, 447, 152630.

Jenkins NL, et al. (2020) Changes in ferrous iron and glutathione promote ferroptosis and frailty in aging *Caenorhabditis elegans*. *eLife*, 9.

Kumar S, et al. (2019) Lifespan Extension in *C. elegans* Caused by Bacterial Colonization of the Intestine and Subsequent Activation of an Innate Immune Response. *Developmental cell*, 49(1), 100.

Serrat X, et al. (2019) CRISPR editing of *sftb-1/SF3B1* in *Caenorhabditis elegans* allows the identification of synthetic interactions with cancer-related mutations and the chemical inhibition of splicing. *PLoS genetics*, 15(10), e1008464.

Webster AK, et al. (2019) Population Selection and Sequencing of *Caenorhabditis elegans* Wild Isolates Identifies a Region on Chromosome III Affecting Starvation Resistance. *G3* (Bethesda, Md.), 9(10), 3477.

Braun MM, et al. (2019) Modeling succinate dehydrogenase loss disorders in *C. elegans* through effects on hypoxia-inducible factor. *PloS one*, 14(12), e0227033.

Qi B, et al. (2018) Microbial Siderophore Enterobactin Promotes Mitochondrial Iron Uptake and Development of the Host via Interaction with ATP Synthase. *Cell*, 175(2), 571.

Hibshman JD, et al. (2017) *daf-16*/FoxO promotes gluconeogenesis and trehalose synthesis during starvation to support survival. *eLife*, 6.

Smolentseva O, et al. (2017) Mechanism of biofilm-mediated stress resistance and lifespan extension in *C. elegans*. *Scientific reports*, 7(1), 7137.

Hibshman JD, et al. (2016) Maternal Diet and Insulin-Like Signaling Control Intergenerational Plasticity of Progeny Size and Starvation Resistance. *PLoS genetics*, 12(10), e1006396.

Gomez-Amaro RL, et al. (2015) Measuring Food Intake and Nutrient Absorption in *Caenorhabditis elegans*. *Genetics*, 200(2), 443.

Moore BT, et al. (2013) WormSizer: high-throughput analysis of nematode size and shape. *PloS one*, 8(2), e57142.