

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

Defining Citation: [PMID:29063832](#)

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

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: 20260821T194028+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

Usage and Citation Metrics

We found 20 mentions in open access literature.

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

Hershberger KA, et al. (2026) Persistent effects of early-life arsenic exposure in *Caenorhabditis elegans*. *Environmental science. Processes & impacts*, 28(2), 534.

Falsztyn IB, et al. (2025) Developmental and conditional regulation of DAF-2/INSR ubiquitination in *Caenorhabditis elegans*. *G3 (Bethesda, Md.)*, 15(3).

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.

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.

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.

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.