

Resource Summary Report

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WormAtlas

RRID:SCR_002861

Type: Tool

Proper Citation

WormAtlas (RRID:SCR_002861)

Resource Information

URL: <http://www.wormatlas.org/>

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Description: Anatomical atlas about structural anatomy of *Caenorhabditis elegans*. Provides simple interface allowing user to easily navigate through every anatomical structure of worm. Contains set of images which can be sorted by different characteristics: sex, genotype, age, body portion or tissue type. Includes links to other major worm websites and databases. Application for viewing and downloading thousands of unpublished electron micrographs and associated data. These images have been generated by several labs in the *C. elegans* community, including the MRC, the Hall lab (Center for *C. elegans* Anatomy), and the Culotti and Riddle labs.

Synonyms: , WormImage, Worm Image Database

Resource Type: data or information resource, atlas, database

Keywords: electron, ganglion, anatomy, *caenorhabditis elegans*, *c. elegans*, cell, development, gfpworm, glossary, lineage, microscopy, morphology, video, nematode, nerve cord, nervous system, neuroanatomy, neuron, phenotype, wiring diagram, worm, image, FASEB list

Funding: NCRR ;
NIH Office of the Director R24 OD010943

Availability: Free, Freely available

Resource Name: WormAtlas

Resource ID: SCR_002861

Alternate IDs: nif-0000-00098, nif-0000-25470, SCR_007295

Alternate URLs: <https://orip.nih.gov/comparative-medicine/programs/invertebrate-models>

Record Creation Time: 20220129T080215+0000

Record Last Update: 20260731T042643+0000

Ratings and Alerts

No rating or validation information has been found for WormAtlas.

No alerts have been found for WormAtlas.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 161 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Wolfe Z, et al. (2025) Deep transcriptomics reveals cell-specific isoforms of pan-neuronal genes. Nature communications, 16(1), 4507.

Haque R, et al. (2025) Decoding sexual dimorphism of the sex-shared nervous system at single-neuron resolution. Science advances, 11(28), eadv9106.

Ruiz MA, et al. (2025) Glucose promotes neuron morphology abnormalities and egg-laying defects dependent of the serotonin signaling pathway in Caenorhabditis elegans. bioRxiv : the preprint server for biology.

Lee HJ, et al. (2025) Automated cell annotation in multi-cell images using an improved CRF_ID algorithm. eLife, 12.

Haque R, et al. (2025) Decoding sexual dimorphism of the sex-shared nervous system at single-neuron resolution. bioRxiv : the preprint server for biology.

Brooker HR, et al. (2025) Conserved Phosphorylation of the Myosin1e TH1 Domain Impacts Membrane Association and Function in Yeast and Worms. Cytoskeleton (Hoboken, N.J.), 82(12), 837.

Pooranachithra M, et al. (2024) C. elegans epicuticlins define specific compartments in the apical extracellular matrix and function in wound repair. bioRxiv : the preprint server for biology.

Heiman MG, et al. (2024) Dendrite morphogenesis in Caenorhabditis elegans. Genetics, 227(2).

Emmons SW, et al. (2024) FUNCTIONS OF C. ELEGANS NEURONS FROM SYNAPTIC CONNECTIVITY. bioRxiv : the preprint server for biology.

Faerberg DF, et al. (2024) Accelerated hermaphrodite maturation on male pheromones suggests a general principle of coordination between larval behavior and development. *Development* (Cambridge, England), 151(13).

Wolfe Z, et al. (2024) Deep Transcriptomics Reveals Cell-Specific Isoforms of Pan-Neuronal Genes. *bioRxiv : the preprint server for biology*.

Emmons SW, et al. (2024) Comprehensive analysis of the *C. elegans* connectome reveals novel circuits and functions of previously unstudied neurons. *PLoS biology*, 22(12), e3002939.

Xu W, et al. (2024) A lineage-resolved cartography of microRNA promoter activity in *C. elegans* empowers multidimensional developmental analysis. *Nature communications*, 15(1), 2783.

Someya W, et al. (2024) Target control of linear directed networks based on the path cover problem. *Scientific reports*, 14(1), 16881.

Ohnishi K, et al. (2024) G protein-coupled receptor-based thermosensation determines temperature acclimatization of *Caenorhabditis elegans*. *Nature communications*, 15(1), 1660.

Haque R, et al. (2024) Sex-specific developmental gene expression atlas unveils dimorphic gene networks in *C. elegans*. *Nature communications*, 15(1), 4273.

Segev A, et al. (2023) Common knowledge processing patterns in networks of different systems. *PloS one*, 18(10), e0290326.

Liska D, et al. (2023) VISTA: Visualizing the Spatial Transcriptome of the *C. elegans* Nervous System. *bioRxiv : the preprint server for biology*.

Yoshiyama KO, et al. (2023) 222 nm far-UVC efficiently introduces nerve damage in *Caenorhabditis elegans*. *PloS one*, 18(1), e0281162.

Lanier VJ, et al. (2023) Theory and practice of using cell strainers to sort *Caenorhabditis elegans* by size. *PloS one*, 18(2), e0280999.