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/

Proper Citation: WormAtlas (RRID:SCR_002861)

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 Application for viewing and downloading thousands of unpublished electron micrographs and associated data.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: atlas, data or information resource, database

Keywords: electron, ganglion, anatomy, caenorhabditis elegan, c. elegan, 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: 20260905T133119+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 178 mentions in open access literature.

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

Liu J, et al. (2026) Induction and regulation of a reversible form of suspended animation in C. elegans. bioRxiv : the preprint server for biology.

Giaquinta R, et al. (2026) Synergistic Roles of FAHD-1 and PYC-1 in Mitochondrial Function, Behavior, and Longevity in C. elegans. Advanced biology, 10(1), e00410.

Uegaki R, et al. (2026) The FMRFamide-like peptide FLP-11 regulates the production and secretion of the TGF-??-like protein DAF-7 during Caenorhabditis elegans larval development. Scientific reports, 16(1), 4634.

Ji Z, et al. (2026) A genetically encoded ionic-stress sensor reveals protons as a sleep driver. bioRxiv : the preprint server for biology.

Gallrein C, et al. (2026) Aging clocks delineate neuron types vulnerable or resilient to neurodegeneration and identify neuroprotective interventions. Nature aging, 6(4), 849.

Churchland MW, et al. (2026) Reinforcement learning in densely recurrent biological networks. iScience, 29(1), 114436.

Walker Z, et al. (2026) PHA-4/FoxA controls the function of pharyngeal and extrapharyngeal enteric neurons in C. elegans. Genes & development, 40(5-6), 366.

Zhao Y, et al. (2026) The nanoscale mobility of calcium channels is driven by readily releasable synaptic vesicles to support precise neurotransmission in live C. elegans. bioRxiv : the preprint server for biology.

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

Ji Z, et al. (2025) Non-Visual Light Sensing Enhances Behavioral Memory and Drives Gene Expression in C. elegans. bioRxiv : the preprint server for biology.

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.

Walker Z, et al. (2025) PHA-4/FoxA controls the function of pharyngeal and extrapharyngeal enteric neurons of C. elegans. bioRxiv : the preprint server for biology.

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

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.

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

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).

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

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.