

Resource Summary Report

Generated by [NIF](#) on Sep 7, 2026

OP50

RRID:WB-STRAIN:WBStrain00041969

Type: Organism

Proper Citation

RRID:WB-STRAIN:WBStrain00041969

Organism Information

URL: <http://www.wormbase.org/db/get?name=WBStrain00041969>

Proper Citation: RRID:WB-STRAIN:WBStrain00041969

Description: Escherichia coli with name E. coli. from WB.

Species: Escherichia coli

Synonyms: E. coli.

Notes: Bacteria. Uracil auxotroph. E. coli B. Biosafety Level: BSL-1."Non-elegans Strain"|"Reference WBPaper00055815 added based on published strain data identified by Textpresso literature search."|"Reference WBPaper00056729 added based on published strain data identified by Textpresso literature search."|"Reference WBPaper00056839 added based on published strain data identified by Textpresso literature search."|"Reference WBPaper00056919 added based on published strain data identified by Textpresso literature search."|"Reference WBPaper00057117 added based on published strain data identified by Textpresso literature search."|"Reference WBPaper00057289 added based on published strain data identified by Textpresso literature search."|"Reference WBPaper00058621 added based on published strain data identified by Textpresso literature search."|"Reference WBPaper00058626 added based on published strain data identified by Textpresso literature search."|"Reference WBPaper00058640 added based on published strain data identified by Textpresso literature search."|"Reference WBPaper00058717 added based on published strain data identified by Textpresso literature search."|"Reference WBPaper00058750 added based on published strain data identified by Textpresso literature search."|"Reference WBPaper00058810 added based on published strain data identified by Textpresso literature search."|"Reference WBPaper00058832 added based on published strain data identified by Textpresso literature search."|"Reference WBPaper00058851 added based on published strain data identified by Textpresso literature search."|"Reference WBPaper00058995 added based on published strain data identified by Textpresso literature search."|"Reference WBPaper00059068 added based on published strain data

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Catalog Number: WB-STRAIN:WBStrain00041969

Database: WormBase (WB)

Database Abbreviation: WB

Availability: available

Source References: [PMID:19270990](#), [PMID:15115160](#), [PMID:15508623](#),
[PMID:15692856](#), [PMID:15862884](#), [PMID:16885605](#), [PMID:17704266](#), [PMID:18064062](#),

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[PMID:34663906](#)

Alternate IDs: WB-STRAIN:OP50, CGC_OP50

Organism Name: OP50

Record Creation Time: 20230227T013736+0000

Record Last Update: 20260905T115506+0000

Ratings and Alerts

No rating or validation information has been found for OP50.

No alerts have been found for OP50.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: WormBase (WB)

Usage and Citation Metrics

We found 319 mentions in open access literature.

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

Radovi?? U, et al. (2026) Forward genetics identifies cuticle and regulatory genes underlying cellular boundary integrity in *C. elegans*. *G3* (Bethesda, Md.), 16(6).

Tan JH, et al. (2026) Quantifying metabolites using structure-switching aptamers coupled to DNA sequencing. *Nature biotechnology*, 44(1), 60.

Meyer LN, et al. (2026) Integrin is required for basement membrane crossing and branching of an invading intracellular tube. *Development* (Cambridge, England), 153(1).

Liu S, et al. (2026) Radial-glia-to-astrocyte trans-differentiation and astrocyte transcriptional convergence are coordinated by CEH-43/DLX in *C. elegans*. *bioRxiv : the preprint server for biology*.

Rahman SS, et al. (2025) Methionine cycle in *C. elegans* serotonergic neurons regulates diet-dependent behaviour and longevity through neuron-gut signaling. *Nature communications*, 16(1), 5118.

Valle-Jim??nez X, et al. (2025) Phenolic Acids Commonly Found in Natural Products Modulate Protein Aggregation in *Caenorhabditis elegans* Neurodegeneration Models. *ACS omega*, 10(26), 27861.

Rao R, et al. (2025) Inhibition of the UFD-1-NPL-4 complex triggers an aberrant immune response in *Caenorhabditis elegans*. *bioRxiv : the preprint server for biology*.

Jonk SM, et al. (2025) Metabolic analysis of sarcopenic muscle identifies positive modulators of longevity and healthspan in *C. elegans*. *Redox biology*, 85, 103732.

Yamamoto KK, et al. (2025) BMP-dependent mobilization of fatty acid metabolism promotes *Caenorhabditis elegans* survival on a bacterial pathogen. *Disease models & mechanisms*, 18(11).

Li Y, et al. (2025) Genome-wide RNAi screening in *C. elegans* reveals OXPHOS and pyrimidine synthesis pathways as PKA regulators. *Communications biology*, 8(1), 1280.

Whited A, et al. (2025) CDH-3/Cadherin, YAP-1/YAP and EGL-44/TEAD promote SYX-2/Syntaxin and EFF-1 fusogen-mediated phagosome closure. *bioRxiv : the preprint server for biology*.

Yan J, et al. (2025) Eukaryotic Elongation Factor 2 Kinase EFK-1/eEF2K promotes starvation resistance by preventing oxidative damage in *C. elegans*. *Nature communications*, 16(1), 1752.

Polk EA, et al. (2025) Wild strains reveal natural variation in *C. elegans* avoidance behaviors. *G3* (Bethesda, Md.), 15(12).

Attianese B, et al. (2025) Functional dissection of H3K4 methyltransferases reveals distinct catalytic and non-catalytic roles in *C. elegans* development. *Development* (Cambridge, England), 152(21).

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*.

Dennis N, et al. (2025) A novel *C. elegans* respirometry assay using low-cost optical oxygen sensors. *Biology methods & protocols*, 10(1), bpaf072.

B??rd??n K, et al. (2025) Developing Endogenous Autophagy Reporters in *Caenorhabditis elegans* to Monitor Basal and Starvation-Induced Autophagy. *International journal of molecular sciences*, 26(20).

Shahi N, et al. (2025) Sensory modulation of neuropeptide signaling by CASY-1 gates cholinergic transmission at *Caenorhabditis elegans* neuromuscular junction. *Journal of biosciences*, 50.

Toker IA, et al. (2025) Divergence in neuronal signaling pathways despite conserved neuronal identity among *Caenorhabditis* species. *Current biology : CB*, 35(12), 2927.

Turner CD, et al. (2025) Activated SKN-1 alters the aging trajectories of long-lived *Caenorhabditis elegans* mutants. *Genetics*, 229(4).