Resource Summary Report

Generated by FDI Lab - SciCrunch.org on Apr 21, 2025

<u>OP50</u>

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

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Affected Gene: EMPTY

Genomic Alteration: EMPTY

Catalog Number: WB-STRAIN:WBStrain00041969

Database: WormBase (WB)

Database Abbreviation: WB

Availability: live

Source References: WBPaper00004955(PMID:19270990)WBPaper00006495(PMID:15115160)WBPaper00010040(PMID:E

Alternate IDs: WB-STRAIN:OP50

Organism Name: OP50

Record Creation Time: 20230227T013736+0000

Record Last Update: 20250419T234750+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 70 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Walker AC, et al. (2024) Identification of proteotoxic and proteoprotective bacteria that nonspecifically affect proteins associated with neurodegenerative diseases. iScience, 27(9), 110828.

Li W, et al. (2024) Low-dose naltrexone extends healthspan and lifespan in C. elegans via SKN-1 activation. iScience, 27(6), 109949.

Wang HL, et al. (2024) A luminescent-based protocol for NAD+/NADH detection in C. elegans, mice, and human whole blood. STAR protocols, 5(4), 103428.

Seto R, et al. (2024) Pseudomonas fluorescens 15 small RNA Pfs1 mediates transgenerational epigenetic inheritance of pathogen avoidance in C. elegans through the Ephrin receptor VAB-1. bioRxiv : the preprint server for biology.

Sharma N, et al. (2024) Protocol for auxin-inducible protein degradation in C. elegans using different auxins and TIR1-expressing strains. STAR protocols, 5(3), 103133.

Park S, et al. (2024) Dopey-dependent regulation of extracellular vesicles maintains neuronal morphology. bioRxiv : the preprint server for biology.

Liu J, et al. (2024) Protocol for survival assay of Caenorhabditis elegans to Pseudomonas aeruginosa PA14 infection. STAR protocols, 5(2), 103070.

Chen Y, et al. (2024) The nematode Caenorhabditis elegans enhances tolerance to landfill leachate stress by increasing trehalose synthesis. PeerJ, 12, e17332.

Wang S, et al. (2024) Poplar Bud (Populus) Extraction and Chinese Propolis Counteract Oxidative Stress in Caenorhabditis elegans via Insulin/IGF-1 Signaling Pathway. Antioxidants (Basel, Switzerland), 13(7).

Stillman NH, et al. (2024) Protein mimetic 2D FAST rescues alpha synuclein aggregation mediated early and post disease Parkinson's phenotypes. Nature communications, 15(1), 3658.

Sirakawin C, et al. (2024) SKN-1/NRF2 upregulation by vitamin A is conserved from nematodes to mammals and is critical for lifespan extension in Caenorhabditis elegans. Aging cell, 23(3), e14064.

Tse-Kang SY, et al. (2024) Intestinal immunity in C. elegans is activated by pathogen effector-triggered aggregation of the guard protein TIR-1 on lysosome-related organelles. Immunity, 57(10), 2280.

Almutairi N, et al. (2024) Stage-specific exposure of Caenorhabditis elegans to cadmium identifies unique transcriptomic response cascades and an uncharacterized cadmium

responsive transcript. Metallomics : integrated biometal science, 16(5).

Sengupta T, et al. (2024) A natural bacterial pathogen of C. elegans uses a small RNA to induce transgenerational inheritance of learned avoidance. PLoS genetics, 20(3), e1011178.

Zytner P, et al. (2024) Selenium-Enriched E. coli Bacteria Mitigate the Age-Associated Degeneration of Cholinergic Neurons in C. elegans. Antioxidants (Basel, Switzerland), 13(4).

Das P, et al. (2024) Calcineurin inhibition enhances Caenorhabditis elegans lifespan by defecation defects-mediated calorie restriction and nuclear hormone signaling. eLife, 12.

Essig YJ, et al. (2024) Juggling cadmium detoxification and zinc homeostasis: A division of labour between the two C. elegans metallothioneins. Chemosphere, 350, 141021.

Gao AW, et al. (2024) High-content phenotypic analysis of a C. elegans recombinant inbred population identifies genetic and molecular regulators of lifespan. bioRxiv : the preprint server for biology.

Yadav DK, et al. (2024) O-GlcNAc signaling increases neuron regeneration through onecarbon metabolism in Caenorhabditis elegans. eLife, 13.

Li R, et al. (2024) Protective Effects of Velvet Antler Methanol Extracts on Hypoxia-Induced Damage in Caenorhabditis elegans through HIF-1 and ECH-8 Mediated Lipid Accumulation. Nutrients, 16(14).