Resource Summary Report

Generated by NIF on Aug 26, 2026

OP50-1

RRID:WB-STRAIN:WBStrain00041971
Type: Organism

Proper Citation

RRID:WB-STRAIN:WBStrain00041971

Organism Information

URL: http://www.wormbase.org/db/get?name=WBStrain00041971

Proper Citation: RRID:WB-STRAIN:WBStrain00041971

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

Species: Escherichia coli

Synonyms: E. coli.

Notes: Bacteria. Streptomycin resistant strain of OP50 which is useful for growing C. elegans in bulk. Biosafety Level: BSL-1.|"Non-elegans Strain"|"WBStrain provided so WBPaper00060933 paper added based on AFP_Strain data."|"WBStrain provided so WBPaper00061245 paper added based on AFP_Strain data."|"WBStrain provided so WBPaper00061319 paper added based on AFP_Strain data."

Catalog Number: WB-STRAIN:WBStrain00041971

Database: WormBase (WB)

Database Abbreviation: WB

Availability: available

Source References: PMID:33495210, PMID:33820857, PMID:33878133, PMID:37192367, PMID:37606250, PMID:38302462, PMID:38418585, PMID:38466732, PMID:38589671, PMID:38594249, PMID:39255003

Alternate IDs: WB-STRAIN:OP50-1, CGC_OP50-1

Organism Name: OP50-1

Record Creation Time: 20230227T013736+0000

Record Last Update: 20260815T163450+0000

Ratings and Alerts

No rating or validation information has been found for OP50-1.

No alerts have been found for OP50-1.

Data and Source Information

Source: Integrated Animals

Source Database: WormBase (WB)

Usage and Citation Metrics

We found 11 mentions in open access literature.

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

Aoki I, et al. (2024) Hierarchical regulation of functionally antagonistic neuropeptides expressed in a single neuron pair. Nature communications, 15(1), 9504.

Schlichter Kadosh Y, et al. (2024) Pseudomonas aeruginosa quorum sensing and biofilm attenuation by a di-hydroxy derivative of piperlongumine (PL-18). Biofilm, 8, 100215.

Hernández-Cruz EY, et al. (2024) Sulforaphane Exposure Prevents Cadmium-Induced Toxicity and Mitochondrial Dysfunction in the Nematode Caenorhabditis elegans by Regulating the Insulin/Insulin-like Growth Factor Signaling (IIS) Pathway. Antioxidants (Basel, Switzerland), 13(5).

Petratou D, et al. (2024) Assessing locomotory rate in response to food for the identification of neuronal and muscular defects in C. elegans. STAR protocols, 5(1), 102801.

Shanmugam MM, et al. (2024) Pharyngeal Pumping Assay for Quantifying Feeding Behavior in Caenorhabditis elegans. Bio-protocol, 14(18), e5073.

Valera-Alberni M, et al. (2024) Novel imaging tools to study mitochondrial morphology in Caenorhabditis elegans. Life science alliance, 7(11).

Kawano T, et al. (2023) ER proteostasis regulators cell-non-autonomously control sleep. Cell reports, 42(3), 112267.

Li C, et al. (2023) Analysis of Transgenerational Epigenetic Inheritance in C. elegans Using a Fluorescent Reporter and Chromatin Immunoprecipitation (ChIP). Journal of visualized experiments : JoVE(195).

Fanelli MJ, et al. (2023) Immunity-linked genes are stimulated by a membrane stress pathway linked to Golgi function and the ARF-1 GTPase. Science advances, 9(49), eadi5545.

Emans SW, et al. (2023) GRD-1/PTR-11, the C. elegans hedgehog/patched-like morphogen-receptor pair, modulates developmental rate. Development (Cambridge, England), 150(24).

Vettkötter D, et al. (2022) Rapid and reversible optogenetic silencing of synaptic transmission by clustering of synaptic vesicles. Nature communications, 13(1), 7827.