



Jan 02, 2025

C. elegans maintenance, synchronization, and preparation for high-content imaging

DOI

<https://dx.doi.org/10.17504/protocols.io.e6nvwb57zvmk/v1>



Justin Donnelly¹

¹Arcadia Science

Arcadia Science



Arcadia Science

Arcadia Science

Create & collaborate more with a free account

Edit and publish protocols, collaborate in communities, share insights through comments, and track progress with run records.

Create free account

OPEN  ACCESS



DOI: <https://dx.doi.org/10.17504/protocols.io.e6nvwb57zvmk/v1>

Collection Citation: Justin Donnelly 2025. *C. elegans* maintenance, synchronization, and preparation for high-content imaging. protocols.io <https://dx.doi.org/10.17504/protocols.io.e6nvwb57zvmk/v1>

**Manuscript citation:**

Avasthi P, Borges AL, Cheveralls K, Donnelly J, Mets DG, Reiter T. (2025). An experimental and computational workflow to characterize nematode motility behavior. <https://doi.org/10.57844/arcadia-b89a-7e76>

License: This is an open access collection distributed under the terms of the **Creative Commons Attribution License**, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

Protocol status: Working

We use this collection and it's working

Created: November 25, 2024

Last Modified: March 13, 2025

Collection Integer ID: 112762

Keywords: motility phenotype, imaging

Abstract

A collection detailing procedures for culturing, preparing, and imaging *C. elegans* strains to determine their motility phenotypes.

Image Attribution

C. elegans, adult hermaphrodite. 2007. Bob Goldstein, UNC Chapel Hill. **CC BY-SA 3.0**

Files

 SEARCH

Protocol

NAME

Genotyping *C. elegans*

VERSION 1

CREATED BY



Arcadia Science
Arcadia Science

OPEN →

Protocol

NAME

C. elegans culture and maintenance

VERSION 1

CREATED BY



Arcadia Science
Arcadia Science

OPEN →

Protocol

NAME

Bleach life-stage synchronization of *C. elegans*

VERSION 1

CREATED BY



Arcadia Science
Arcadia Science

OPEN →

Protocol

NAME

Preparing *C. elegans* for image acquisition

VERSION 1

CREATED BY



Arcadia Science
Arcadia Science

OPEN →