

Modeling Age-Associated Neurodegenerative Diseases in *Caenorhabditis elegans*

 Konstantinos Palikaras^{1,2}, Nektarios Tavernarakis^{1,2}
¹Institute of Molecular Biology and Biotechnology, Foundation for Research and Technology-Hellas, Greece ²Department of Basic Sciences, Faculty of Medicine, University of Crete, Heraklion, 70013, Crete, Greece

Corresponding Authors

 Konstantinos Palikaras
 palikarask@imbb.forth.gr

 Nektarios Tavernarakis
 tavernarakis@imbb.forth.gr

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jove.com/video/61169

Materials

Name	Company	Catalog Number	Comments
Agar	Sigma-Aldrich	5040	
Agarose	Biozym	8,40,004	
AM101: <i>rmsIs110</i> [<i>p_{rgef-1}Q40::YFP</i>]	Caenorhabditis Genetics Center (CGC)		
Calcium chloride dehydrate (CaCl ₂ ? 2H ₂ O)	Sigma-Aldrich	C5080	
Cholesterol	SERVA Electrophoresis	17101.01	
<i>deg-3(u662)V</i> or <i>deg-3(d)</i>	Caenorhabditis Genetics Center (CGC)		Maintain animals at 20 °C
DIC microscope (Nomarsky)	Zeiss		Axio Vert A1
Dissecting stereomicroscope	Nikon Corporation		SMZ645
Epifluorescence microscope	Thermo Fisher Scientific		EVOS Cell Imaging Systems
<i>Escherichia coli</i> OP50 strain	Caenorhabditis Genetics Center (CGC)		
Greiner Petri dishes (60 mm x 15 mm)	Sigma-Aldrich	P5237	
image analysis software	Fiji		https://fiji.sc
KH ₂ PO ₄	EMD Millipore	1,37,010	
K ₂ HPO ₄	EMD Millipore	1,04,873	
Magnesium sulfate (MgSO ₄)	Sigma-Aldrich	M7506	
<i>mec-4(u231)X</i> or <i>mec-4(d)</i>	Caenorhabditis Genetics Center (CGC)		Maintain animals at 20 °C
Microscope slides (75 mm x 25 mm x 1 mm)	Marienfeld, Lauda-Koenigshofen	10 006 12	
Microscope cover glass (18 mm x 18 mm)	Marienfeld, Lauda-Koenigshofen	01 010 30	
Microsoft Office 2011 Excel software package	Microsoft Corporation, Redmond, USA		
Na ₂ HPO ₄	EMD Millipore	1,06,586	

Nematode growth medium (NGM) agar plates			
Nystatin stock solution	Sigma-Aldrich	N3503	
Peptone	BD, Bacto	211677	
Phosphate buffer			
Sodium chloride (NaCl)	EMD Millipore	1,06,40,41,000	
Standard equipment for preparing agar plates (autoclave, Petri dishes, etc.)			
Standard equipment for maintaining worms (platinum wire pick, incubators, etc.)			
statistical analysis software	GraphPad Software Inc., San Diego, USA		GraphPad Prism software package
Streptomycin	Sigma-Aldrich	S6501	
Tetramisole hydrochloride	Sigma-Aldrich	L9756	
UA44: <i>Is[baln1; pdat-1α-syn, Pdat-1GFP]</i>			Upon request: G. Caldwell (University of Alabama, Tuscaloosa AL)