Library
Indian Institute of Science Education and Research
Mohali

Please use this identifier to cite or link to this item: http://hdl.handle.net/123456789/291

Title:	Understanding molecular mechanism of learning and memory in Caenorhabditis elegans
Authors:	Bhardwaj, Shivam (/jspui/browse?type=author&value=Bhardwaj%2C+Shivam)
Keywords:	Bioinformatics Caenorhabditis elegans Neuron
Issue Date:	5-Jun-2013
Publisher:	IISER M
Abstract:	How do we learn and memorize has been a question in neurobiology for a long time. There have been numerous experiments to decipher the process of how information is processed, stored and retrieved by an organism. C. elegans has been used a model system to address several such questions, including our question: What is the molecular mechanism of learning and long term memory formation? What are the molecules involved and what the pathways for information processing and storage are? In this current work, we show a learning test to identify and quantify the learning in worms after training. We also show that the worms mutant in CREB show severely impaired learning. Using ChIP assays, single neuron ablation and bioinformatics analysis we plan to identify the molecules involved in long term memory formation.
Appears in Collections:	MS-08 (/jspui/handle/123456789/270)

Files in This Item:

File	Description	Size	Format	
MS08047_Thesis_SB.pdf (/jspui/bitstream/123456789/291/3/MS08047_Thesis_SB.pdf)		1.06 MB	Adobe PDF	View/Open (/jspui/bitstream/123456789/291/3/M

Show full item record (/jspui/handle/123456789/291?mode=full)
(/jspui/handle/123456789/291/statistics)

Items in DSpace are protected by copyright, with all rights reserved, unless otherwise indicated.