Title:	The Role of C. elegans Casy-1 in Foraging and Navigation
Authors:	Ravindranath, Shruthi (/jspui/browse?type=author&value=Ravindranath%2C+Shruthi)
Keywords:	Biology C.elegans Neuroscience Protein
Issue Date:	13-Jul-2017
Publisher:	IISER-M
Abstract:	C. elegans CASY-1 is a cadherin-like type-I transmembrane protein which has been shown to be associated with defects in multiple forms of associative learning. In this study, I characterize the defects in locomotion behavior of casy-1 mutants both in the absence and presence of food. I show that C. elegans casy-1 exhibits behavioral deficits similar to mutants defective for neuropeptide signaling and release. Based on my findings and previous work, I propose a model based on which CASY-1 functions to regulate neuropeptide and neurotransmitter release from the sensory neurons. In casy-1 mutants, disrupted neuronal signalling from the sensory neurons leads to altered activity in the locomotor circuit resulting in the behavioral defects that I observe.
URI:	http://hdl.handle.net/123456789/751 (http://hdl.handle.net/123456789/751)
Appears in Collections:	MS-12 (/jspui/handle/123456789/723)

Files in This Item:

File	Description	Size	Format	
MS-12096.pdf (/jspui/bitstream/123456789/751/3/MS-12096.pdf)		3.44 MB	Adobe PDF	View/Open (/jspui/bitstream/123456789/751/3/MS-12

Show full item record (/jspui/handle/123456789/751?mode=full) (/jspui/handle/123456789/751/statistics)