Role of the drosophila learning and memory gene dunce (DNC) in synaptic transmission

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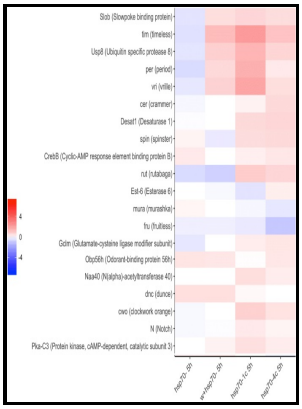

Description: -
-role of the drosophila learning and memory gene dunce (DNC) in synaptic transmission
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Canadian theses = -- Thèses canadiennesrole of the drosophila learning and memory gene dunce (DNC) in synaptic transmission
Notes: Thesis (M.Sc.) -- University of Toronto, 1998.
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Tags: #Altered #gene #regulation #and #synaptic #morphology #in #Drosophila #learning #and #memory #mutants

A Novel Role for Ecdysone in Drosophila Conditioned Behavior: Linking GPCR

The HSPGs Syndecan and Dallylike bind the receptor phosphatase LAR and exert distinct effects on synaptic development. To avoid causing artifacts by improper handling of flies, flies that had abnormally high activities or failed to respond more than twice, consecutively, were excluded from data analysis.

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Lapsyn expression was increased in neuronal cell bodies arrowhead and in the medulla region arrow of sei ts1.

K+

We discuss how technologies in the fly model, combined with a high degree of molecular and physiological conservation between flies and mammals, highlight the Drosophila system as an ideal model to study neurodevelopmental disorders, from genetics to behavior. By continuing you agree to the. Lapsyn encodes a neuronal cell adhesion leucine-rich repeat LRR protein that localizes to synapses and regulates synaptic connectivity, suggesting a potential role in learning-induced synaptic modification.

Genetics in learning and memory

B PCR analysis from genomic DNA spanning the P-element insertion site purple bar in A is shown for CS, a precise excision Lapsyn PE and Lapsyn zg1.

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Other transcripts altered in dnc 1 mutants were tan t , a b-alanyl-dopamine hydrolase; Punch Pu , a GTP cyclohydrolase; CG4587, an a2d

calcium channel subunit; neurexin IV Nrx-IV , a glial-enriched cell surface protein; Ten-a, an EGF-containing transmembrane protein enriched on developing axons; and hairless H , a regulator of Notch signaling Supplemental Table 2. Caki acts as a gain control for a CaMKII-dependent molecular switch during activity-dependent plasticity in Drosophila Lu et al.

WikiGenes

LLTM can last for up to a week in Drosophila and is induced by spaced training, in which training cycles are interrupted by rest intervals.

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