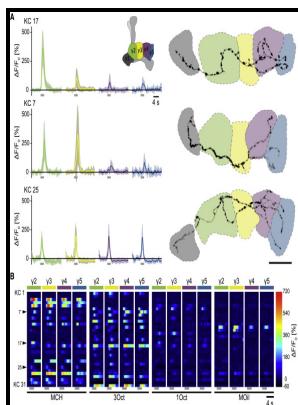


Role of the drosophila learning and memory gene dunce (DNC) in synaptic transmission

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Conversely, rut 1 mutants that have reduced cAMP levels display opposite effects on synaptic structure and neurotransmission Zhong and Wu 1991; Zhong et al.

Role of cAMP cascade in synaptic stability and plasticity: ultrastructural and physiological analyses of individual synaptic boutons in Drosophila memory mutants

Nuclei were counterstained with SYTO orange shown in magenta. Total RNA was isolated using Trizol GIBCO BRL. The sections were processed as described previously Nighorn et al.

The Drosophila dunce locus: learning and memory genes in the fly

Of the 15 transcripts assayed, 12 showed similar changes by quantitative RT—PCR as reported by the microarrays C; Supplemental Fig. Engel JE, Xie XJ, Sokolowski MB, Wu CF 2000 A cGMP-dependent protein kinase gene, foraging, modifies habituation-like response decrement of the giant fiber escape circuit in Drosophila. The action potentials in the left side leg extensor TTM and the right side wing depressor DLM were recorded as an indicator of GF pathway output.

Altered gene regulation and synaptic morphology in Drosophila learning and memory mutants

These results suggest that, upon stimulation by 20E, DopEcR may be able to signal via another adenylyl cyclase that can compensate for the lack of Rut.

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