Invertebrate Learning and Memory: Chapter 6. Optophysiological Approaches to Learning and Memory in Drosophila melanogaster (Handbook of Behavioral Neuroscience)

Thomas Riemensperger, André Fiala

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Localizing and determining biochemical and physiological mechanisms in the brain that are causally related to experience-dependent changes of behavior (i.e., learning) can be accomplished by combining different experimental approaches. First, disabling neuronal structure and function, such as by mutations leading to ablation of neurons or reversibly blocking of synaptic transmission, can provide information about which neuronal structures and processes are required for learning. Second, monitoring neuronal activity during and after learning informs about changes in neuronal processing that correlate with learning, memory formation, and retrieval. Third, artificial induction of neuronal activity can be used to mimic learning-induced changes in neuronal function. Advances in the development of molecular tools to optically monitor correlates of neuronal activity and to manipulate neuronal activity through light or temperature increase have substantially expanded the toolkit for such approaches. In this chapter, we review applications of these techniques for analyzing neuronal mechanisms underlying associative olfactory learning in Drosophila melanogaster.

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