



Invertebrate Learning and Memory: Chapter 35. Cellular Mechanisms of Neuronal Plasticity in the Honeybee Brain (Handbook of Behavioral Neuroscience)

Bernd Grünewald

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The electrical and synaptic neuronal activity within the brain is altered when animals acquire new information about their environment. During classical olfactory conditioning, for example, the conditioned stimulus gains a new value by being rewarded. This process correlates with modulations of cell physiology in some of those neurons that are involved in odor processing and odor learning. Physiologists aim to identify the mechanisms underlying learning-dependent cellular plasticity. Ionic currents and transmitter receptors as well as their cellular consequences are investigated. In honeybees, the cellular physiology of olfactory learning is well described, and models of some of the neural mechanisms of learning are established. This chapter surveys how the properties of voltage- and ligand-gated ionic currents and metabotropic receptors of honeybee neurons fit into a model of cellular plasticity underlying appetitive odor learning in the honeybee.

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