



# **Invertebrate Learning and Memory: Chapter 34. Glutamate Neurotransmission and Appetitive Olfactory Conditioning in the Honeybee (Handbook of Behavioral Neuroscience)**

*Gérard Leboulle*

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It is well-established that glutamate is a neurotransmitter of the central nervous system of insects. Several components of the neurotransmission are identified and characterized. Glutamate receptors homologous to their vertebrate counterparts (NMDA, non-NMDA, and metabotropic) and glutamate-gated chloride channels, particular to invertebrates, are present. A precise understanding of the neural location and function of the glutamate neurotransmission is still lacking. It is widespread in the brain, but it is probably less important in the mushroom body. It is composed of inhibitory currents mediated by glutamate-gated chloride channel and excitatory currents mediated by non-NMDA receptor. Glutamatergic neurotransmission of the mushroom body plays a role in appetitive olfactory conditioning. NMDA and metabotropic glutamate receptors are required during conditioning for specific memory phases, similarly to their role in long-term potentiation in mammals. Furthermore, glutamate chloride channels are implicated in memory retrieval.

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