



Invertebrate Learning and Memory: Chapter 31. Memory Phases and Signaling Cascades in Honeybees (Handbook of Behavioral Neuroscience)

Uli Müller

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Appetitive associative conditioning in the honeybee *Apis mellifera* provides the basis to address the molecular link between training parameters and memory focusing on the induction and maintenance of memory phases. Special techniques developed to monitor and manipulate signaling cascades at high temporal and spatial resolution uncovered the critical role of learning-induced dynamic changes of signaling cascades and their contribution to distinct aspects of memory formation. This analysis demonstrated an important role of cAMP- and Ca²⁺-dependent signaling processes acting in parallel. Both reside in the antennal lobes and are critical for the induction of long-term memory and the maintenance of midterm memory.

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