



Invertebrate Learning and Memory: Chapter 38. Learning and Recognition of Identity in Ants (Handbook of Behavioral Neuroscience)

Patrizia d'Ettorre

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Ants are among the most advanced social insects and are characterized by a very efficient recognition system allowing discrimination between group members and strangers, thus protecting colonies from competitors and parasites. Nestmate recognition cues are encoded in the complex hydrocarbon profile present on the cuticle of each ant. The neural mechanisms allowing ants to distinguish between friends and enemies are still not completely understood, and it is unclear whether learning plays a crucial role in this process. However, learning does play an important role when distinguishing individual identity is beneficial, as in the case of co-founding associations of ant queens that establish a dominance hierarchy. Recently, a set of experimental tools has been developed to study learning and memory in ants. This will allow exploring cognitive abilities and their underlying mechanisms in this very diverse taxon.



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