



Invertebrate Learning and Memory: Chapter 13. Salt Chemotaxis Learning in *Caenorhabditis elegans* (Handbook of Behavioral Neuroscience)

Yuichi Iino

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The nematode *Caenorhabditis elegans* raised under standard conditions shows chemotaxis to salts such as NaCl. However, after exposure to the salt under starved conditions, these animals learn to avoid salt. This plasticity, here called salt chemotaxis learning, is very robust and therefore has been intensively studied. It was found that the insulin/phosphatidylinositol 3-kinase pathway has a pivotal role in salt chemotaxis learning, and the salt-sensing neuron ASER is the target of insulin action. A decrease in synaptic output of the ASER sensory neuron was suggested to underlie changes in sensory processing caused by learning. In addition, other sensory neurons and interneurons are also involved in this form of learning. These findings at the molecular and neuronal levels are discussed in this chapter.

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