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Abstract

Human brain is considered to be the most complex structure in the universe. Research in memory began in early of nineteenth century. After more than forty years of study, they found where memory is stored temporarily, i.e. in the hippocampal formation and adjacent, anatomically related cortex: the perirhinal and parahippocampal cortices. Serotonin acts as neurotransmitter in implicit short-term memory storage, while glutamate involves in explicit short-term memory storage. For long-term memory storage, both implicit and explicit used the same core-signaling pathway, PKA, MAPK, and CREB-1. Short-term memory storage, either implicit or explicit does not required new protein synthesis, but undergone covalent modification of preexisting protein which cause increase synaptic strength, while the long term memory storage involve activation of gene expression, new protein synthesis and the formation of new connection.

Keyword: memory, implicit, explicit, hippocampus.,

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