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Long Term Memory and the Persistence of Memory Storage

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I will consider a core signaling pathway, which emerged from studies of Aplysia and mice whereby a transient short-term memory is converted into a stable, self-maintained, long-term memory. I will then consider cellular mechanisms in the mouse whereby a long-term explicit memory for space is perpetuated by means of selective attention during acquisition. Finally I will consider a novel molecular candidate mechanism for self-sustaining perpetuation of memory storage.