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Behavioral, cellular, and synaptic tagging frameworks

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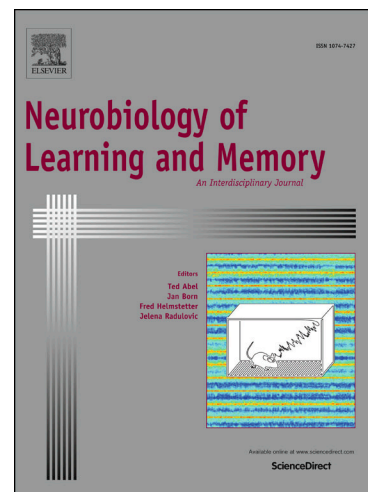
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**Neurobiology of Learning and Memory Review****Behavioral, cellular, and synaptic tagging frameworks****Masanori Nomoto<sup>1,2</sup> and Kaoru Inokuchi<sup>1,2</sup>****<sup>1</sup>Department of Biochemistry, Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama, 2630 Sugitani, Toyama 930-0194, Japan.****<sup>2</sup>CREST, JST, University of Toyama, 2630 Sugitani, Toyama 930-0194, Japan.****Abstract**

Behavioral tagging is the transformation of a short-term memory induced by a weak experience into a long-term memory through temporal association with a novel experience. This phenomenon was discovered to recapitulate synaptic tagging and capture at the behavioral level. Significant progress has been made in determining the molecular machinery associated with synaptic tagging and capture and behavioral tagging theories. However, the tag setting and recruitment of plasticity-related proteins

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