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Nota di contenuto	Differential role of CaMK in synaptic tagging and capture Compartmentalization of Synaptic Tagging and Capture Synaptic cooperation and competition: two sides of the same coin? Neuropsin-dependent and -independent synaptic tagging and modulation of long-term potentiation: a quest for the associated signaling pathway(s) PKA Anchoring and Synaptic Tagging and Capture Activity-dependent protein transport as a synaptic tag mTOR and the Regulation of Translational Capacity in Late Forms of Synaptic Plasticity Dopaminergic Neuromodulation in Synaptic tagging and Capture From where? Synaptic Tagging Allows the Nucleus Not to Care BDNF and TrkB mediated signalling supports processes of metaplasticity and long-term memory formation Prescient Synapses: Gating Future Neuronal Consciousness Through Synaptic Tagging and Metaplasticity Metaplasticity of Synaptic tagging and Capture: Memory beyond the circle Emotional tagging and long-term memory formation The Behavioral Tagging hypothesis and its implications for long-term memory formation.

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proposed to provide a conceptual basis for how short-term memories are transformed into long-term memories. Though the hypothesis remains unconfirmed due to technological limitations, the model is well consolidated and generally accepted in the field. Various researchers have investigated the cellular mechanisms for the formation of longterm memory using the STC model, but this is the first book-length treatments of STC. This volume features an introduction by Prof. Richard Morris and Prof. Cliff Abraham.