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## Molecular Regulation of Learning-induced Neuronal Plasticity

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Deadline for manuscript submissions:

**closed (10 February 2020)**

### Message from the Guest Editors

Neuronal plasticity refers to the capacity of neurons to adapt their synaptic connections in an activity-dependent manner. This adaptation is thought to underlie both learning throughout the lifespan and functional recovery after brain lesions. In particular, for decades the experimental study of neuronal plasticity has mainly involved the electrophysiology of synapses combined with the neuropharmacology of neurotransmitters. Today, the field has dramatically expanded, and a plethora of molecules regulating neuronal plasticity both at the functional (i.e., long-term potentiation of depression) and the morphological level (i.e., dendritic spine dynamics) have been discovered.

However, despite the large body of excellent existing literature, molecular processes regulating learning-induced neuronal plasticity are not well understood. This Special Issue, therefore, focuses on review and original research articles that help gathering further details on the cellular and molecular regulation of neuronal plasticity in the hippocampus and other areas involved in the processes of memory formation and consolidation.



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# Special Issue



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## Message from the Editor-in-Chief

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