



Synaptic Plasticity and Diseases

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Synaptic plasticity is a basic process in the brain that allows humans and animals to adapt to changes in their environment and is considered the neural basis of learning and memory as well as brain disorders including Alzheimer's disease, Parkinson's disease, autism, schizophrenia, mental retardation, chronic pain and drug addiction. Long-term potentiation (LTP) and long-term depression (LTD) are the most intensively studied forms of activity-dependent synaptic plasticity. It is now clear that that LTP and LTD are involved in many physiological functions and are linked to various brain disorders. An understanding of the cellular and molecular mechanisms of synaptic plasticity could aid the development of effective treatments for brain disorders. This Special Issue will be of interest to basic and clinical researchers involved in studies that focus on synaptic plasticity and diseases.





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Message from the Editor-in-Chief

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