Special Issue

New Insights in GABA Signaling

Message from the Guest Editors

GABAergic transmission, mediated by GABAergic neurons through local or long-range projections, has been shown to be crucial in sculpting neural networks, refining signal processing, preventing hyperexcitability, and maintaining homeostasis within neural circuits, thus playing a crucial role in the establishment of functional neural networks and the regulation of various neurophysiological and behavioral processes. Research into GABAergic signaling in postsynaptic neurons and mechanisms that regulate GABAergic neuron activity is crucial for a deeper understanding of brain function in health and disease, and the development of novel therapeutic strategies has aimed to restore and modulate synaptic transmission to improve brain function and treat a wide range of neuropsychiatric disorders. The GABAergic synapse is the site of action of several different classes of drugs and is used in the pharmacotherapy of anxiety and sleep disorders, epilepsy, alcohol withdrawal, and the induction and maintenance of anesthesia. All kinds of physiology, pharmacology, and pathophysiology studies involving GABAergic circuits and behaviors regulated by GABAergic transmission are welcome.

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