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Neuron-Astrocyte Interactions in Neurological Function and Disease

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Message from the Guest Editors

Astrocytes play a central role in brain homeostasis and the modulation of synaptic transmission, and the reciprocal communication between neurons and astrocytes has emerged as a key process in neurophysiology. This aspect cannot be overlooked when investigating the mechanisms involved in neuropathological conditions. Indeed, while ex vivo and in vivo findings continue to provide new insights into how astrocytes integrate neurons in modulating brain circuits and, ultimately, animal behavior, several studies on neuropathological conditions have revealed alterations in astrocyte signaling pathways, often accompanied by a shift to a reactive state and significant transcriptome changes. Viewing this Special Issue as an opportunity to disseminate recent research findings to a wide audience, we welcome and research articles that address reviews intercommunication at structural, molecular and cellular levels, with a particular focus on findings related to neurological function and dysfunction.













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