



Astrocyte–Neuron Communication in Neurological Disorders

Guest Editor:

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Deadline for manuscript
submissions:

closed (10 December 2022)

Message from the Guest Editor

Dear Colleagues ,

Astrocytes are electrically non-excitabile members of the central nervous system. Despite this, they can effectively contribute to regulating neuronal activity in a complex manner: by regulating excitability of single neurons; cleaving excitatory neurotransmitters from the synaptic and extrasynaptic spaces; and by regulating synaptic strength. With these functions, they can influence neuronal network activity. Via this action on network activity, astrocyte–neuron communications are involved in several physiological processes such as learning or regulation of sleep-wakefulness. Astrocytes are also involved in the pathogenesis of various neurological, neuropsychiatric diseases by alterations of their actions on neurons.

In this Special Issue, submissions on a wide range of topics are invited, including research articles, reviews or mini-reviews of in vitro, ex vivo/in vivo or clinical observations. Submissions of manuscripts regarding age dependence of astrocyte–neuron communication or dementias, as well as studies synthetizing clinical observations with basic research, are particularly welcomed.





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Message from the Editor-in-Chief

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