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Retrograde Responses of Neurons and Associated Glial Cells to Axon Injury

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Message from the Collection Editor

Dear Colleagues,

This Special Issue is dedicated to research on the cellular and molecular framework for the retrograde neuronal reaction. The retrograde neuronal reaction is most commonly associated with the traumatic injury of peripheral or long-distance projecting central axons but is also a frequent consequence of, for example, stroke, traumatic brain injury, invasive malignancies, and metabolic disorders or toxin exposure, which compromise axonal integrity. In all these conditions, the outcome of the retrograde neuronal reaction will have a major impact on functional recovery. It aims to cover research on how the retrograde neuronal reaction is triggered and maintained, the mechanisms involved for neuron survival or degeneration, as well as for neuron-glial, glial-glial and neuron-neuronal interactions, and how these processes come together to disrupt the affected neural circuitry, and the possibilities for its restoration through interventions with bioactive agents and rehabilitation. We look forward to your contribution.



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Topical Collection



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Message from the Editorial Board

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