Topical Collection

Retrograde Responses of Neurons and Associated Glial Cells to Axon Injury

Message from the Collection Editor

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.

Collection Editor
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Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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