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Axon Regeneration

Guest Editor:

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Deadline for manuscript submissions:

closed (30 April 2021)

Message from the Guest Editor

Axon regeneration is a fundamental process for recovery after disease or traumatic injuries in the nervous system. In the central nervous system of mammals, neurons only regenerate in early developmental periods. By contrast, axon regeneration occurs spontaneously in the peripheral nervous system of adults. Additionally, many non-mammalian species show spontaneous axon regeneration after central nervous systems injuries. It is of crucial importance to understand the intrinsic and extrinsic molecular pathways limiting or promoting axon regeneration in those different contexts.

The aim of this Special Issue is to compile recent advances in our understanding of axon regeneration. Submissions of original studies and reviews on any aspect related to axon regeneration in vertebrate and invertebrate models are welcomed. This is a timely Special Issue given recent methodological developments such as single cell sequencing, CRISPR/Cas genetic manipulations, optogenetics or whole-tissue imaging, which are increasing exponentially our understanding of axon regeneration.



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Special Issue



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