Special Issue

Axon Regeneration

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.

Guest Editor

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Message from the Editorial Board

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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