Special Issue

Glial Scar: Formation and Regeneration

Message from the Guest Editors

Glial scar formation, triggered by injuries to the nervous tissue, is associated with reactive gliosis, increased cell migration, and the expression of numerous active factors (such as interleukins, trophic factors, and extracellular matrix components). Thus, this multidimensional structure comprises multiple cellular and extracellular components secreted by the activated cells. On the one hand, the glial scar is considered to exert beneficial effects associated with the limited spread of injury and, on the other hand, it is a hindrance to tissue regeneration. Glial scar formation: Does it exert beneficial or detrimental effects on injury spread and tissue regeneration? This question will be addressed and discussed in many respects. This Special Issue aims to provide an overview of novel discoveries in the field of glial scar formation, its structure and composition, as well as proposed innovative strategies designed to promote tissue regeneration and restoration of its functions. Keywords

- CNS
- reactive gliosis
- inflammation
- scarring
- tissue cytoarchitecture
- neurorepair

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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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