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Glial Scar: Formation and Regeneration

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Deadline for manuscript
submissions:
closed (30 April 2024)

Message from the Guest Editors

Dear Colleagues,

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



mdpi.com/si/135337

Special Issue



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