

## Special Issue

# Molecular and Histological Advance in Neural Regeneration

### Message from the Guest Editor

Injuries to the nervous system—both peripheral and central—remain a major clinical and scientific challenge due to their limited regenerative capacity and often incomplete functional recovery. While the peripheral nervous system (PNS) retains a certain ability for regeneration, clinical outcomes are frequently suboptimal and functional recovery remains incomplete. In contrast, regeneration within the central nervous system (CNS) is highly restricted due to multiple intrinsic and extrinsic inhibitory mechanisms. Understanding the molecular, cellular, and structural determinants of neural regeneration is therefore essential for the development of effective therapeutic strategies. This Special Issue aims to provide an integrated overview of current advances in the molecular and histological understanding of neural regeneration, with particular emphasis on mechanistic and experimental studies related to peripheral nerve injury. Contributions addressing regeneration in the central nervous system are also welcome, especially when they provide mechanistic insights, comparative perspectives with PNS regeneration, or innovative therapeutic approaches.

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### Guest Editor

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## International Journal of Molecular Sciences

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