Special Issue

Myelin and Oligodendrocyte-Neuron Interactions

Message from the Guest Editor

The insulating properties of myelin produced by oligodendrocytes in the central nervous system (CNS), together with nodes of Ranvier, small axonal domains highly enriched in voltage-gated Na+ channels, allow the fast saltatory transmission of action potentials. The myelination profile and node of Ranvier distribution contribute to adjusting the timing of impulse transmission, critical for coincident arrival of synaptic inputs from multiple axons in sensory system. The multifactorial process leading to nodal proteins assembly in the CNS during development remains partially understood, with the recent hypothesis that these mechanisms might differ depending on neuronal sub-populations. In addition, our understanding of cellular interactions and molecular mechanisms underlying myelination is still partial.

Guest Editor

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