

From development to degeneration and regeneration of the nervous system

Oxford University Press - Dynamics of degeneration and regeneration in developing zebrafish peripheral axons reveals a requirement for extrinsic cell types

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Description: -

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Neuronal Plasticity
Neurodegenerative Diseases -- physiopathology
Nerve Regeneration
Central Nervous System -- physiology
Neuroplasticity
Nervous system -- Regeneration
Nervous system -- Degeneration
Central nervous system -- Physiology
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Nerve Cell Degeneration

Long-term exposure to antipsychotics increases dopamine turnover, which results in the excessive production of oxidative metabolites, especially in dopamine-rich brain regions such as the basal ganglia.

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Definition a connective tissue sheath can support regrowth if it remains intact and cell bodies do not die, therefore reinnervation of the target organ is possible.

Neuronal Degeneration and Regeneration: From Basic Mechanisms to Prospects ...

Slower degeneration of the distal segment than that which occurs in the peripheral nervous system also contributes to the inhibitory environment; inhibitory myelin and axonal debris are not cleared away as quickly. The proximal segment can either die by apoptosis or undergo the chromatolytic reaction, an attempt at repair.

Nervous System Regeneration

This may be due to disrupted trafficking of normal EAAT2 to the cell membrane and the formation of protein aggregates comprised of a mixture of truncated and normal EAAT2 proteins Lin et al. Interestingly, we found that Schwann cells are essential for proper navigation of the regenerating pLL nerve.

Complement in the Development and Regeneration of the Nervous System

The success of regeneration has a major influence on the outcome of many neuropathies and is the key to neurological recovery. These researchers employ sophisticated models of neurodevelopment ranging from small animals to patient-derived induced pluripotent stem cells iPSCs to study the mechanisms underlying the normal functions of axons, as well as their development, myelination, degeneration, and the regenerative response to injuries.

Development and Regeneration: Common Themes and Important Differences

Migration and function of a glial subtype in the vertebrate peripheral nervous system. Michael Sofroniew is a distinguished professor of neurobiology at the University of California Los Angeles UCLA. In contrast, expression of BDNF is reduced in astrocytes surrounding senile plaques.

Ramon y Cajal, S. (1913) Degeneration and regeneration of the nervous system. Oxford Univ Press, London, 1913.

Morpholinos MOs were injected into one-cell-stage embryos at the indicated concentrations.

Neuronal Degeneration and Regeneration: From Basic Mechanisms to Prospects ...

Areas particularly affected include memory, attention, judgement, language, and problem solving. Neuroregeneration differs between the peripheral nervous system PNS and the central nervous system CNS by the functional mechanisms and especially by the extent and speed.

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