The Neurologist: Clinical &

A Supporting Role of Astrocytes in Axonal Repair Following Acute and Chronic Spinal Cord Injury

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Abstract

Astrocytes play a crucial and complex role in the repair of axonal damage following spinal cord injury (SCI), impacting both acute and chronic phases of the condition. In the acute phase, astrocytes become activated and contribute to reactive astrogliosis, forming a glial scar that initially protects but can later impede axonal regeneration. They also release neurotrophic factors that aid in neuronal survival and modulate the infammatory response. In the chronic

Astrocytes in cord injury chronic spinal

In the chronic phase, astrocytes continue to in uence recovery through several mechanisms

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