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Lithium is neuroprotective in preclinical stroke models. In addition to that, poststroke neuroregeneration is stimulated upon transplantation of mesenchymal stem cells (MSCs). Preconditioning of MSCs with lithium further enhances the neuroregenerative...

Mesenchymal Stem Cell-Derived Microvesicles Modulate ...

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Jan 18, 2021 · Drommelschmidt, K. et al. **Mesenchymal stem cell-derived extracellular vesicles** ameliorate **inflammation**-induced preterm brain injury. *Brain Behav. Immun.* 60, 220–232.

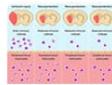
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Publish Year: 2021

Mesenchymal Stromal Cell–Derived Small Extracellular ...

<https://www.ahajournals.org/doi/10.1161/STROKEAHA.119.028012>

Introduction **Methods** **Results** **Discussion** **Acknowledgments**



Extracellular vesicles are released by virtually all cell types. Small **extracellular vesicles** (sEVs), namely exosomes (70–150 nm), mediate complex signaling between cells in targeted manners, both within and between tissues.¹ Derived from the right cell type,

Name of Journal: *World Journal of Stem Cells*

Manuscript NO: 65857

Manuscript Type: REVIEW

Modulating poststroke inflammatory mechanisms: Novel aspects of mesenchymal stem cells, extracellular vesicles and microglia

Xin WQ *et al.* Modulation of poststroke inflammation

Abstract

Inflammation plays an important role in the pathological process of ischemic stroke, and systemic inflammation affects patient prognosis. As resident immune cells in the brain, microglia are significantly involved in immune defense and tissue repair under various pathological conditions, including cerebral ischemia. Although the differentiation of M1 and M2 microglia is certainly oversimplified, changing the activation state of microglia appears to be an intriguing therapeutic strategy for cerebral ischemia. Recent evidence indicates that both mesenchymal stem cells (MSC) and

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