

## Special Issue

# Emerging Roles of Extracellular Vesicles in Neurological Diseases

### Message from the Guest Editor

Extracellular vesicles (EVs), including exosomes and microvesicles, have emerged as central mediators of intercellular communication within the central and peripheral nervous systems. EVs carry diverse cargo of proteins, lipids, metabolites, and nucleic acids, including mRNAs, miRNAs, lncRNAs, circRNAs, and DNA fragments, enabling precise cell-specific signaling in both health and disease. Evidence implicates EVs in the pathogenesis, progression, and recovery of many neurological disorders, including neurodegenerative diseases, brain tumors, stroke, traumatic brain injury, neuroinflammatory conditions, and neuromuscular diseases. This Special Issue highlights recent advances in the emerging roles of EVs in neurological diseases. Topics include insights into EV biogenesis, cargo selection, cell-specific communication, EV-mediated neuroimmune signaling, neurovascular interactions, and neuron-glia communication. The issue also encompasses translational applications: EV-based biomarkers, liquid biopsy from cerebrospinal fluid, blood, and other biofluids, and EVs as therapeutic delivery platforms.

### Guest Editor

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### Deadline for manuscript submissions

25 July 2026



## International Journal of Molecular Sciences

an Open Access Journal  
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Impact Factor 4.9  
CiteScore 10.0  
Indexed in PubMed



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*International Journal of  
Molecular Sciences*  
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