

# Special Issue

## MDSCs in Health and Disease

### Message from the Guest Editor

Myeloid-derived suppressor cells (MDSCs) are a heterogeneous population of immature myeloid cells with immunosuppressive functions, particularly on T lymphocytes. They exhibit remarkable plasticity, allowing them to either remain in this suppressive state or differentiate into monocytes/macrophages, dendritic cells, or neutrophils. MDSCs play key roles in physiological processes such as wound healing and the response to acute organ injury. However, they are also implicated in the persistence of chronic inflammation and have been proposed as critical mediators of immunosuppression during viral infections and tumor immune evasion. MDSCs are associated with various pathophysiological conditions characterized by the coexistence of inflammation and immunosuppression. The aim of this Special Issue is to provide a dedicated forum to summarize current knowledge and promote further research into the physiology of MDSCs and their roles in pathophysiology.

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### Guest Editor

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### Deadline for manuscript submissions

closed (20 April 2026)



## International Journal of Molecular Sciences

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