Special Issue

Extracellular Vesicles and Exosomes: Novel Insight and Therapeutic Applications in Cancer

Message from the Guest Editors

Extracellular vesicles (EVs) and exosomes (Exos) are small structures involved in the regulation of biological processes through their cargo, which can comprise proteins, lipids, or nucleic acids. They are produced by tumor cells and function as a unique form of intercellular communication that can promote cell growth and survival, help shape the tumor microenvironment, and increase invasive and metastatic activity. However, the application of complex culture models to unravel the role of EVs and Exos in cancer research has not yet been popularized within EV research, given the difficulties that this type of culture presents, both technically and in terms of costs. This Special Issue will highlight the involvement of EVs and Exos in cancer physiology in order to identify potential applications in clinical oncology. The unique properties of EVs and Exos mean that they are promising tools in the therapeutic treatment of diseases, including neurodegenerative conditions and various types of cancer, highlighting the importance of 3D cultures in the study of EVs and Exos.

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Deadline for manuscript submissions

20 April 2026

Cells

an Open Access Journal by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed

mdpi.com/si/237237

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About the Journal

Message from the Editorial Board

Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).