Special Issue

Biomolecular Condensates in Oncology and Immunology

Message from the Guest Editors

Cytoplasmic and nuclear phase-separated biomolecular condensates serve as scaffolding for diverse subcellular functions including but not limited to epigenetic regulation, DNA repair, transcription, RNA processing, mRNA translation, stress responses to hypoxia, tonicity, temperature and pH, and normal and aberrant signaling from the plasma membrane to the cell interior. More recently, condensate droplet formation by fusion oncoproteins leading to aberrant prooncogenic signaling, involvement of condensates in mechanisms of innate and adaptive immunity, cytokine signaling, viral replication and antiviral mechanisms, and condensate targeting by cancer therapeutic agents have been highlighted in numerous investigations. Moreover, our understanding of the involvement of liquid–liquid phase separated (LLPS) condensates in mechanisms of intercellular adhesion, cell migration and cancer metastasis is improving. The focus of this Special Issue is to collect contributions that further our understanding of biomolecular condensates in functional aspects of cancer pathogenesis, anti-cancer therapeutics, immune and antiviral mechanisms in normal and cancer cells.

Guest Editors

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Deadline for manuscript submissions

25 November 2025

Cells

an Open Access Journal by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed

mdpi.com/si/207424

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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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