

## Special Issue

# Cell Division: A Focus on Molecular Mechanisms

### Message from the Guest Editors

Cells divide and reproduce via two types of cell division processes: mitosis and meiosis. Both processes require a highly regulated and carefully orchestrated sequence of events that induce remodeling of both the cytoskeleton and cell membranes. These changes ensure the formation of new cellular structures, such as the spindle apparatus necessary for correct chromosome segregation, and the disassembly/remodeling of pre-existing structures, such as the endoplasmic reticulum, Golgi apparatus and nuclear envelope later distributed and reformed in the cells that arise. Cytoplasmic material and smaller organelles, such as mitochondria, must also be distributed correctly within daughter cells. The failure of these mechanisms is the basis of numerous human pathologies such as cancer. Therefore, we welcome original papers and review articles to this Special Issue, with a focus on recent studies that disseminate greater knowledge of cell division and the molecular mechanisms that regulate this process to better understand its role in pathologies.

### Guest Editors

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### Deadline for manuscript submissions

closed (20 July 2025)



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