# Special Issue

# Recent Advances in Mechanisms of Mitotic and Meiotic Chromosome Segregation and Error Correction

## Message from the Guest Editors

Chromosome segregation ensures the equal inheritance of genetic material among progeny across generations. Accurate segregation is essential to maintaining genomic integrity and preventing catastrophic outcomes. Over the years, we have broadened our understanding of the myriad pathways that control this central process required to maintain life in perpetuity, but some aspects remain unaddressed. In this Special Issue, first, we hope to reflect on recent advances in understanding the functional basis for error correction in mitosis. Error correction mechanisms, including those controlling anaphase chromosome movement, have been studied for years, but we especially want to focus on recent studies that revisit models for how chromosomes are segregated accurately to each pole. Second, we would like to cover recent studies on the highly error-prone oocyte chromosome segregation process, including acentrosomal spindle assembly, maternal aging, early embryonic aneuploidy, meiotic checkpoints, and female meiotic drive or biased segregation.

## Guest Editors

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## Deadline for manuscript submissions

closed (31 October 2023)

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*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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