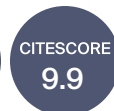




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## Cell Division in Yeast

Guest Editor:

**Dr. Katie Shannon**

Department of Biological  
Sciences, Missouri University of  
Science and Technology, Rolla,  
MO 65409, USA

Deadline for manuscript  
submissions:

**31 January 2025**

### Message from the Guest Editor

Cell division in yeasts requires the coordination of mitosis, cytokinesis, and septation. Budding, fission, and pathogenic yeasts are all useful model organisms to study this complex process. Since the discovery of cyclin-dependent kinase (CDK) in yeasts, research on yeast cells has led to insights applicable to all eukaryotic cells. How cells assemble the mitotic spindle, correctly attach chromosomes to microtubules, coordinate chromosome segregation with actomyosin ring contraction, and halt the cell cycle to prevent mistakes are essential questions in cell biology, with implications for human health.

This Special Issue will focus on multiple aspects of cell division in different yeast species. The topics will include the formation of the mitotic spindle, kinetochore assembly, the regulation of mitosis by CDK, mitotic checkpoints, actomyosin ring assembly, and the formation of primary and secondary septa.

- mitosis
- kinetochore
- chromosome segregation
- actomyosin ring
- cytokinesis
- septation
- mitotic exit network
- spindle assembly checkpoint



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# Special Issue



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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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## Contact Us

*Cells* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
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