Special Issue

Centrosome

Message from the Guest Editors

The centrosome, its centrioles, and their surrounding pericentriolar material are amazing centers of activities in a eukaryotic cell. This Special Issue of the Journal *Cells* aims to familiarize readers with the diverse aspects of centrosome investigations. It will collect answers from leading centrosome biology specialists to the most pressing issues related to its function, structure, and evolution. These answers include, but are not limited to, the following: 1) What is the structural basis for ninth-order symmetry? 2) Why are there two centrioles in a diploid cell? 3) When do duplications of centrioles begin in the cell cycle? 4) What is the mechanism of the centrioles appearance? 5) How are centrioles duplication and cell cycle regulation co-regulated? 6) How is microtubule nucleation on the centrosome regulated? 7) What is the mechanism of centrosome separation before mitosis? 8) What is the role of the centrosome in the formation of the spindle and cell division? 9) What morphological variants of centrioles exist in various organisms? 10) How do the centrosomes form and change during evolution?

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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).