Special Issue

Organoids as an Experimental Tool

Message from the Guest Editors

Organoids are self-organized three-dimensional tissue cultures derived either from pluripotent stem cells; they can be sourced from embryonic stem cells, induced pluripotent stem cells, or tissue-derived stem cells from a specific organ. In addition, they may also be derived from progenitor or differentiated cells from healthy or diseased tissues. These cultures can replicate the complexity of an organ or focus on specific aspects of it. As a result, these three-dimensional "mini-organs" can provide valuable insights into the biological processes within an organ. They have become a powerful in vitro research tool that maintains the genetic and phenotypic characteristics of organs in vivo. The applications of organoids include modeling the development and diseases and investigating their potential for drug development and personalized medicine. Furthermore, they have shown great promise in regenerative medicine and offer a non-animal-based alternative for basic and translational research. In this Special Issue of *Cells*, we invite you to contribute articles, reviews, or communications on all aspects related to the theme.

Guest Editors

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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).