Special Issue

New Insights Into Comprehensive Molecular Systems Regulating Cell Proliferation, Growth, and Cell Death

Message from the Guest Editor

This Special Issue focuses on basic cellular events ("proliferation", "growth", and "death") in the process of organ regeneration. If the organ is damaged and loses its function, it will immediately begin to regenerate and try to withhold its function. The regeneration process is complicated and unique depending on the organ, and therefore not yet fully elucidated. In each organ, regeneration is achieved by smart and unique molecular machinery that coordinates cell proliferation, growth, and death. The proliferation of parenchymal/non-parenchymal cells is a central event of regeneration. Various kinds of pathological and mechanical stresses, such as ischemia–reperfusion or surgical resection, ignite the unique machinery by comprehensively regulating the initiation, continuation, and termination of regeneration. Similarly, cell growth plays a pivotal role in the achievement of quick and sure organ regeneration, especially in cases where cell proliferation is disturbed. For further reading, please, visit the Special Issue website.

Guest Editor

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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).