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Growth Factors, Cell Organelles and Stress

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submissions:

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Message from the Guest Editor

This Special Issue of *Cells* is dedicated to the regulation of the functions, structure, and formation of cellular organelles and the cytoskeleton by growth factors under normal and stress conditions. Most studies on growth factor effects and mechanisms of action address general cellular processes such as proliferation, differentiation, and migration. Understanding the growth factor effects on specific organelles and cytoskeletal elements can enhance our knowledge of molecular mechanisms underlying their signaling pathways and biological activities. The regulation of cells by growth factors is dependent on the external stress conditions, such as hypoxia, inflammatory stimuli, hypothermia, and hyperthermia. To the external factors can be added endogenous cellular stress caused by the malfunctioning of cell organelles. Special attention will be paid to the role of mechanical stress in growth factor biology. The role of interplay between growth factors and cellular structures in the genesis of cardiovascular pathologies, cancer, diabetes, and other diseases will be addressed. This Special Issue will contain both original research articles and reviews.



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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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