Special Issue

Study on Extracellular Matrix Remodeling

Message from the Guest Editor

The extracellular matrix (ECM) is a complex of proteins and carbohydrates that supports structural and metabolic functions, from tissue morphogenesis/development to homeostasis maintenance. Some functions encompass isolating cells from organs and affecting hydrostatic tissue pressure; each organ's ECM composition is distinct and unique. The ECM's remodeling and hardening can also occur during chronic obstructive pulmonary disease, neurodegenerative diseases, and the progression and diffusion of cancer metastasis. This Special Issue will focus on ideas and methods aimed at the characterization of the ECM's composition and role in disease; identification of ECM matrix isolation in vitro; new strategies for ECM regeneration; identification of animal models for in vivo experiments; next-generation sequencing and single-cell RNA sequencing analyses, proteomic analysis, bioinformatics data analysis and extensive data integration. Mathematical models and machine-learning approaches for understanding ECM remodeling and classification are welcome.

Guest Editor

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Deadline for manuscript submissions

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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).