Special Issue

Mechanisms of TGF-β Signaling in Disease Progression

Message from the Guest Editors

The Transforming Growth Factor-beta (TGF-β) superfamily is made up a of large number of secreted pleiotropic growth factors that regulate many processes involved in development, homeostasis of tissue function and repair, immune response and regulation, vasculature formation and muscle growth and maintenance. Due to its diverse range of functions, not surprisingly, dysregulation of signaling of the TGF-β superfamily results in a multitude of diseases including cancer, fibrosis, osteoarthritis, autoimmunity, rheumatoid arthritis, diabetes mellitus, multiple sclerosis. However, the critical spatiotemporal mechanisms utilized by TGF-β to drive this multitude of pathological conditions and, importantly, how these mechanisms can be reversed therapeutically are not completely understood.

This Special Issue welcomes original research papers or focused reviews elucidating key and novel mechanistic regulation of TGF-β signaling involved in disease progression. It will also include articles that discuss the possible improvement of current therapeutic strategies targeting TGF-β signaling that are currently under investigation.

Guest Editors

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Deadline for manuscript submissions

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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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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).