

Special Issue

Mechanisms of Lung Growth and Regeneration

Message from the Guest Editors

Lung growth and regeneration are governed by epithelial–mesenchymal–vascular–immune cell interactions. The signaling pathways in lung growth are recapitulated during regeneration after injury. This Special Issue focuses on key cellular and molecular processes of lung growth and regeneration in age, environment and species, to better understand disease development and establish novel regenerative approaches. This Special Issue highlights lung epithelial biology like stem cells and regenerative medicine. Epithelial stem/progenitor cells in different lung regions interact with mesenchymal, immune and vascular niches. These niches dictate epithelial stem/progenitor cell quiescence, re-entry into cell cycle, differentiation and regenerative potential. Studies focus on cells in these niches and their roles in development, homeostasis, injury/repair and disease. The biological distinctions between mesenchymal proliferation and fibrosis are of interest. Studies and reviews on new single-cell analysis tools are welcomed. Research on epithelial–mesenchymal interrelationships (maintaining lung homeostasis, orchestrating growth and regeneration) is also welcomed.

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Deadline for manuscript submissions

31 July 2026



Cells

an Open Access Journal
by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed



mdpi.com/si/245724

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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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