

Special Issue

Cellular Immunity in the Lung

Message from the Guest Editors

The role of immune responses in the lung has been brought into sharp focus with the ongoing SARS-CoV-2 pandemic. Numerous microbial pathogens are a threat to lung function and overall health, particularly in those with underlying lung conditions, as well as in people with other risk factors including medical, geographical, and socioeconomic disparities. A fine balance must be achieved in the lung between sufficient immune responses to prevent or clear microbial colonization and/or disease, and the prevention of excessive immune responses that damage the lung and other tissues and organs. Effective immune responses involve innate immunity such as alveolar macrophages, neutrophils, and natural killer cells; and adaptive immune responses including T cells (CD4 and CD8), and B cells/antibodies. Categories of immune responses, including the appropriate cellular effector, memory, homing, and specificity phenotype, are key. This Special Issue of *Cells* aims to bring together current research and opinion on lung immunity and its role in naturally and artificially/vaccine-generated protective immunity against lung pathogens.

Guest Editors

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Dr. Steven Smith

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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).