# Special Issue

# New Mechanistic Insights and Novel Therapeutic Options for Pulmonary Vascular Disease (PVD)

## Message from the Guest Editor

Pulmonary vascular disease (PVD) encompasses a broad spectrum of various disorders characterized by high resistance and low compliance of pulmonary arteries.

These diseases are primarily attributed to dysregulated cell contraction, proliferation, reduced apoptosis, and altered cell signaling in pulmonary vascular cells. New research has elucidated important features like reactive oxygen species formation and the role of inflammation that contribute to the vascular contraction and remodeling linked with PVDs. The emerging role of transcription factors, microRNAs (miRNAs), and long non-coding RNAs (lncRNAs) in modulating gene expression patterns has also opened new research avenues into the pathogenesis of PVD.

These novel mechanistic insights have sparked interest in developing targeted treatments. The advancements provide hope that next-generation drugs could target specific molecular mechanisms to effectively control disease progression.

This Special Issue looks forward to collecting the latest research on PVDs. We encourage you to contribute to this Special Issue of Cells by submitting a research article or a review.

## Guest Editor

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## Deadline for manuscript submissions

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*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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