Special Issue

Molecular Mechanisms and Pathophysiology of Pulmonary Vascular Remodeling

Message from the Guest Editors

Excessive remodeling of the normally low-pressure pulmonary vasculature is a common multifactorial pathological process resulting in elevated pulmonary vascular resistance and pulmonary hypertension (PH). The World Symposium on Pulmonary Hypertension classifies five categories of PH, including pulmonary arterial hypertension (PAH), PH secondary to left heart disease (Group 2), PH due to chronic lung disease and/or hypoxia (Group 3) thromboembolic disease (Group 4), or PH due to unclear or multifactorial mechanisms (Group 5). All these groups have distinct pathological mechanisms and different molecular mechanisms may even be dominant within groups. A broad range of dysregulation of essential pathways inside and outside of the lung has been discovered. Although the understanding of PH pathobiology has increased substantially over recent years, many molecular and cellular mechanisms have not been identified or fully understood. This Special Issue is dedicated to molecular mechanisms and pathophysiology of pulmonary vascular remodeling. Research articles and reviews will inform you about recent developments and update the current stage of knowledge.

Guest Editors

Prof. Dr. Andrea Olschewski

Dr. Valentina Biasin

Dr. Chandran Nagaraj

Dr. Bence Nagy

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International Journal of Molecular Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
ijms@mdpi.com

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The *International Journal of Molecular Sciences* (*IJMS*) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, and molecular biophysics. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

Editor-in-Chief

Prof. Dr. José L. Quiles
Department of Physiology, Institute of Nutrition and Food Technology "Jose Mataix", Biomedical Research Center, University of Granada, Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

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