## **Special Issue**

## Mitochondria in Pulmonary Disease: From Molecular Mechanism to Medicine

### Message from the Guest Editors

In lung diseases, mitochondria have become the focus of attention owing to their role as a central hub for the integration and transformation of cellular signals, thereby regulating, e.g., inflammation, proliferation, apoptosis, and contraction. In addition, mitochondria act as primary sensors for hypoxia and allow for the availability of substrates that are utilized for ATP production. Mitochondrial release of reactive oxygen species, interference with intracellular calcium homeostasis, and modulation of metabolic intermediates play an important role in the development of various pathologies, e.g., pulmonary hypertension, emphysema, pulmonary fibrosis, and lung cancer, but also in physiological signaling processes such as hypoxia-dependent signaling and the activation of immune cells. The aim of this Special Issue is to present clinical and experimental scientific reports that provide a deeper understanding of the physiological and pathological mitochondrial signal processes that allow for the development of new treatment strategies and the implementation of experimental concepts in clinical practice.

### **Guest Editors**

Prof. Dr. Natascha Sommer

Excellence Cluster Cardio-Pulmonary Institute (CPI), Universities of Giessen and Marburg Lung Center (UGMLC), Justus-Liebig-University, 35392 Giessen, Germany

### Dr. Oleg Pak

Excellence Cluster Cardio-Pulmonary Institute (CPI), University of Giessen and Marburg Lung Center (UGMLC), Member of the German Center for Lung Research (DZL), Justus-Liebig-University of Giessen, 35392 Giessen, Germany

### Deadline for manuscript submissions

closed (25 June 2022)



# Journal of Clinical Medicine

an Open Access Journal by MDPI

Impact Factor 2.9
CiteScore 5.2
Indexed in PubMed



mdpi.com/si/68848

Journal of Clinical Medicine Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 jcm@mdpi.com

mdpi.com/journal/

jcm





# Journal of Clinical Medicine

an Open Access Journal by MDPI

Impact Factor 2.9 CiteScore 5.2 Indexed in PubMed





### **About the Journal**

### Message from the Editorial Board

There has been an explosion of gene and target based research and therapeutics in the multitude of fields that compose clinical medicine. The *Journal of Clinical Medicine*'s (*JCM*) staff and editorial board are dedicated to providing cutting edge, timely, and peer-reviewed articles covering the diverse subspecialties of clinical medicine. The journal publishes concise, innovative, and exciting research articles as well as clinically significant articles and reviews that are pertinent to the myriad of disciplines within medicine. The articles published are relevant to both primary care physicians and specialists. The journal's full-texts are archived in PubMed Central and indexed in PubMed. Please consider submitting your manuscripts for publication to our journal and check us out on-line!

### **Editors-in-Chief**

Prof. Dr. Emmanuel Andrès

Internal Medicine Department, University Hospital Strasbourg, 67000 Strasbourg, France

Prof. Dr. Kent Doi

Department of Emergency and Critical Care Medicine, University of Tokyo, Tokyo, Japan

### **Author Benefits**

### **High Visibility:**

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, CAPlus / SciFinder, and other databases.

### Journal Rank:

JCR - Q1 (Medicine, General and Internal) / CiteScore - Q1 (General Medicine)

### **Rapid Publication:**

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.7 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).