



## Pathophysiology and Treatment of Pulmonary Arterial Hypertension

Guest Editor:

**Dr. Yoshihiro Fukumoto**

Department of Internal Medicine,  
Cardiovascular Medicine, Kurume  
University School of Medicine, 67  
Asahi-machi, Kurume 830-0011,  
Japan

Deadline for manuscript  
submissions:

**closed (30 June 2023)**

### Message from the Guest Editor

Dear Colleagues,

Pulmonary arterial hypertension is a rare and devastating condition, characterized by the remodeling and the obstruction of pulmonary microvessels and resulting in increased pulmonary vascular resistance, elevated pulmonary arterial pressures, and right ventricular failure. When PAH occurs in a hereditary context, germline mutations in various genes have been identified. The pathophysiological process of PAH is an intricate process that involves vasoconstriction, vascular remodeling, endothelial dysfunction, inflammation, and thrombosis.

This Special Issue aims to provide comprehensible knowledge regarding recently identified mechanisms of the cellular pathogenesis of pulmonary arterial hypertension, which could open future and innovative treatment options and strategies.

Dr. Yoshihiro Fukumoto

*Guest Editor*





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Maurizio Battino

Department of  
Odontostomatologic and  
Specialized Clinical Sciences,  
Sez-Biochimica, Faculty of  
Medicine, Università Politecnica  
delle Marche, Via Ranieri 65,  
60100 Ancona, Italy

## Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) 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, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *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.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

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

**Journal Rank:** JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Inorganic Chemistry)

## Contact Us

---

*International Journal of Molecular  
Sciences* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/ijms  
ijms@mdpi.com  
X@IJMS\_MDPI