International Journal of
Molecular Sciences

IMPACT FACTOR 4.9 | Indexed in: PubMed | CITESCORE 8.1

an Open Access Journal by MDPI

Molecular Pathology and Therapy on Cystic Fibrosis and CFTR-Related Diseases

Guest Editor:

Prof. Dr. Tsukasa Okiyoneda
Department of Biomedical Sciences, School of Biological and Environmental Sciences, Kwansei Gakuin University, Hyogo 669-1337, Japan

Deadline for manuscript submissions:
closed (30 June 2023)

Message from the Guest Editor

Cystic fibrosis (CF) is caused by the congenital loss of function of CF transmembrane conductance regulator (CFTR), a cAMP-regulated Cl^- channel expressing at the plasma membrane of epithelial cells. Dysregulated CFTR function caused by genetic and/or environmental stresses could participate in the pathogenesis of diseases including chronic obstructive pulmonary disease (COPD), asthma, and bronchiectasis. Thus, understanding the molecular mechanism of dysregulated CFTR function can help us to develop novel therapeutic approaches for the CFTR-related diseases associated with CFTR mutations and polymorphisms. Moreover, in addition to traditional small-molecule CFTR modulators, new chemical modalities including oligonucleotides, molecular glues, and gene therapy may provide novel therapeutic approaches for CFTR-related diseases.

This Special Issue on “Molecular Pathology and Therapy on Cystic Fibrosis and CFTR-Related Diseases” will gather reviews and original articles focused on the molecular pathology of CFTR-related diseases and novel therapeutic approaches at basic, translational and clinical levels in the field.

International Journal of
Molecular Sciences

IMPACT FACTOR 4.9 | Indexed in: PubMed | CITESCORE 8.1

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