

Special Issue

Primary Ciliary Dyskinesia: Genetics, Molecular Mechanisms, Diagnostic and Therapeutic Perspectives

Message from the Guest Editors

Primary ciliary dyskinesia (PCD) is the flagship ciliopathy caused by the genetically determined dysfunction of motile cilia. The symptoms are not specific, and the genetic background is heterogeneous. The whole ciliome (cilia genome) consists of thousands of genes, including those encoding proteins involved in cilia biogenesis—a multi-step process involving signaling factors. The pace of identification of PCD-related genes experienced a rapid acceleration during the last several years, mostly due to the introduction of new technologies such as whole-exome sequencing. To date, PCD-causing mutations in about 50 genes have been identified, and the number of PCD-related genes is bound to increase. Even though the genetic cause of approximately one-third of PCD cases remains unknown, the current knowledge can be used to design schemes of molecular testing that enable correct and effective PCD diagnosis. We warmly invite the contribution of original and review papers to this Special Issue of *IJMS*, which is basically devoted to PCD, but is in fact intended to present a wide spectrum of ciliary research related to primary ciliary dyskinesia.

Guest Editors

Prof. Michał P. Witt

Prof. Ewa Ziętkiewicz

Dr. Zuzanna Bukowy-Bieryłło

Deadline for manuscript submissions

closed (30 December 2021)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/70250

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

[mdpi.com/journal/
ijms](https://mdpi.com/journal/ijms)





International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



[mdpi.com/journal/
ijms](https://mdpi.com/journal/ijms)



About the Journal

Message from the Editor-in-Chief

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

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, CAPus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)