

Special Issue

Sleep Apnea and Intermittent Hypoxia 2.0

Message from the Guest Editor

Sleep apnea syndrome (SAS) is a clinical syndrome characterized by repeated episodes of pharyngeal obstruction during sleep that leads to intermittent hypoxia (IH), sleep fragmentation, and excessive daytime sleepiness. It is a highly prevalent disorder, affecting about 14% of men and 5% of women, and its prevalence is rapidly rising because of its strong association with obesity. There is increasing evidence of an independent association of SAS with metabolic dysfunction, and, in particular, with alterations in glucose metabolism. Subjects with SAS seem to be at greater risk of developing type 2 diabetes mellitus, insulin resistance, and metabolic syndrome, an association that seems to be, at least in part, irrespective of the degree of obesity. Indeed, SAS and obesity may exert synergistic negative effects on glucose metabolism. However, there are few molecular studies about SAS/IH. The aim of this Special Issue is to provide new findings regarding the molecular events in SAS/IH, as well as their mechanisms.

Guest Editor

Prof. Dr. Shin Takasawa

Department of Biochemistry, Nara Medical University (NMU), 840 Shijo-cho, Kashihara 634-8521, Nara, Japan

Deadline for manuscript submissions

closed (1 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/69987

*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*, 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.

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

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 (Organic Chemistry)