

Special Issue

The Positive Impact of DNA-Derived Substances on Inflammation, Aging and Associated Symptoms

Message from the Guest Editor

This Special Issue is supervised by with the assistance of our Topical Advisory Panel Member Dr. Ji-Hye Kang (Soonchunhyang University).

PDRN is typically extracted from salmon sperm DNA, and the key functions of PDRN include tissue regeneration, wound healing, and anti-inflammatory effects. Likewise, PN, which is primarily sourced from fish germ cells, has been reported to enhance tissue regeneration. Although PDRN is predominantly recognized for its animal-derived forms, research is increasingly exploring plant-based alternatives.

In this Special Issue, we aim to summarize and expand the understanding of the beneficial functions of DNA-derived substances in inflammation, aging, and associated symptoms. Additionally, we welcome innovative approaches that improve the stability, delivery, and efficacy of PDRN for inclusion in this Special Issue. Furthermore, DNA-derived substances, often referred to as nucleic acid-based therapeutics, encompass a variety of treatments that utilize DNA or RNA segments for therapeutic purposes.

Guest Editor

Prof. Dr. Mi Young Lee

Department of Medical Science, College of Medical Sciences,
Soonchunhyang University, Asan 31538, Republic of Korea

Deadline for manuscript submissions

31 August 2025



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/233761

*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)