

Special Issue

The Structure and Function of Synuclein

Message from the Guest Editors

Parkinson's disease (PD) is the most common type of parkinsonism that cause movement problems. The pathologic hallmark of PD is the Lewy body (LB), a neuronal inclusion largely consisting of α -synuclein (α S) protein aggregations, which are associated with the death of dopamine-producing cells. Dementia with Lewy bodies (DLB) is a dementia disorder. As with PD, LBs and Lewy neurites in the brain constitute the main histopathological features of DLB. Multiple system atrophy (MSA) is a neurodegenerative disease. Glial cytoplasmic inclusions of α S are a defining histologic feature of this disease. Taken together with biochemical and genetic evidence, the mis-folding and aggregation of α S may play an important role in the development of α -synucleinopathies. This Special Issue focusses on the current understanding and future research directions regarding the structure and function of synuclein in neurodegenerative diseases. We warmly welcome original manuscripts, review articles, case reports, and commentaries relating to this hot topic.

Guest Editors

Prof. Dr. Kenjiro Ono

Dr. Takafumi Hasegawa

Dr. Kazuma Murakami

Deadline for manuscript submissions

closed (20 February 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/134787

*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)