International Journal of
Molecular Sciences

IMPACT FACTOR 4.9 | Indexed in: PubMed | CITESCORE 9.0

an Open Access Journal by MDPI

α-Synuclein in Neurons and Glia: From Physiology to Pathology

Guest Editors:

Dr. Fabio Cavaliere
Achucarro Basque Center for Neuroscience, Leioa, Spain

Dr. Benjamin Dehay
Univ. Bordeaux, CNRS, IMN, UMR 5293, F-33000 Bordeaux, France

Dr. Federico N. Soria
Achucarro Basque Center for Neuroscience, Leioa, Spain

Deadline for manuscript submissions:
closed (31 December 2021)

Message from the Guest Editors

The physiological role of the protein α -synuclein is debated; it is expressed constitutively in neurons and found in glia under certain pathological conditions. α-Synuclein fibrillary aggregation and spreading through neuroanatomically connected regions is a hallmark of a series of neuropathologies termed synucleinopathies that include Parkinson 's disease, dementia with Lewy bodies, pure autonomic failure, and multiple system atrophy. However, several questions remain unanswered: is α-synuclein aggregation a cause or effect of the pathological process? What determines the transition from the physiological to pathological state of α-synuclein? Is neuronal α-synuclein different from the α-synuclein found in glial cells? Is it worth using α-synuclein in animal models? In this Special Issue, we want to shed light upon the complex scenario of α-synuclein transition from physiology to pathology in synucleinopathies, with a wide view from the clinic to the basic experimental knowledge.

International Journal of
Molecular Sciences

IMPACT FACTOR 4.9 | Indexed in: PubMed | CITESCORE 9.0

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 (Organic 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