

Special Issue

Lipids and Brain Aging

Message from the Guest Editor

The aim of this Special Issue is to explore lipid-related molecular mechanisms involved in brain aging in health and disease. Indeed, lipids play many roles in the central nervous system, as membrane structural components, in cell signaling and gene expression regulation. Glia were originally considered to be a support system providing lipids and other nutrients to neurons. Now, recent data point to the importance of glia–neuron communication for the functional integrity of the tripartite synapse composed of pre- and postsynaptic membranes and glia. Lipid homeostasis, ensuring a balance between glia–neuron lipid influx and efflux, is a critical determinant of neuron function and synaptic plasticity. The tight regulation of lipid homeostasis involves a system of enzymes, transporters, receptors, and transcription factors involved in lipid metabolism and trafficking between glia and neurons. Original articles or focused reviews addressing these topics will be considered for publication.

Guest Editor

Dr. Frances T. Yen

INSERM UMR_S Acute and Chronic Cardiovascular Failure, DCAC, Faculty of Medicine, University of Lorraine, 54505 Vandoeuvre-lès-Nancy, France

Deadline for manuscript submissions

closed (30 June 2022)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/77108

*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)