

Special Issue

Lipids in Fish

Message from the Guest Editor

Fish are considered as the most important source of long-chain polyunsaturated fatty acids of the omega-3 family (omega-3 LC-PUFA) in the human diet. The needs of the different fishes in LC-PUFA are not the same. Some species efficiently synthesize eicosapentaenoic (20:5n-3, EPA) and docosahexaenoic (22:6n-3, DHA) acids from their precursors, while others obtain these PUFAs mainly from food. Anyway, omega-3 LC-PUFAs play an important role in the metabolism of all fish species. Very often omega-6 LC-PUFAs, which are no less important in the metabolism of some fish, are unfairly ignored. A shortage of EPA, DHA and arachidonic (20:4n-6, ARA) acids in fish food leads to the appearance of various pathologies in fish: myocarditis, obesity of the liver and intestines, fin erosion, gill bleeding, curvature of the spine, decreased reproductive potential, etc. Species-specific features of lipid metabolism in fish, e.g., lipid synthesis in different tissues, intestinal lipid absorption and their assimilation, oxylipins synthesis and their role, the relationship of fish lipid composition with their life strategy, etc., are of particular interest.

Guest Editor

Dr. Olesia N. Makhutova

1. Institute of Biophysics of Federal Research Center "Krasnoyarsk Science Center" of Siberian Branch of Russian Academy of Sciences, Russia

2. Siberian Federal University, Russia

Deadline for manuscript submissions

closed (31 January 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/48599

*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)