

Special Issue

Lipid Emulsion in Toxicology

Message from the Guest Editor

Lipid emulsion has been widely used for the treatment of local anesthetic systemic toxicity. Although lipid emulsion is used to treat intractable cardiovascular collapse induced by toxicity of nonlocal anesthetic drugs with high lipid solubility, many physicians have a tendency to consider only the lipid sink as the underlying mechanism, in which the lipid emulsion absorbs highly lipid soluble drugs from vital organs, leading to a reduction in the offending drug content in vital organs such as the heart. However, many mechanisms other than the lipid sink have been demonstrated to be involved experimentally, including lipid shuttle (enhanced redistribution), inotropic effects, inhibition of nitric oxide production, fatty acid supply, attenuation of mitochondrial dysfunction, and glycogen synthase kinase-3 β phosphorylation. For this Special Issue, we welcome all research papers associated with lipid emulsion treatment of systemic toxicity induced by local anesthetics or nonlocal anesthetic drugs, including antidepressants, antipsychotics, calcium channel blockers.

Guest Editor

Prof. Dr. Ju-Tae Sohn

Department of Anesthesiology and Pain Medicine, College of Medicine, Gyeongsang National University (GSNU), Jinju, Republic of Korea

Deadline for manuscript submissions

closed (31 October 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/68496

*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)