





an Open Access Journal by MDPI

# **Lipid Emulsion in Toxicology**

Guest Editor:

### Prof. Dr. Ju-Tae Sohn

Department of Anesthesiology and Pain Medicine, College of Medicine, Gyeongsang National University (GSNU), Jinju-si 52727, Republic of Korea

Deadline for manuscript submissions:

closed (31 October 2021)

# **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-3beta 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.













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 & Molecular Biology*) / CiteScore - Q1 (*Inorganic Chemistry*)

### **Contact Us**