

Special Issue

Ozone in Medicine: Recent Advances on the Molecular Mechanisms Underlying Its Biological and Medical Action

Message from the Guest Editor

The recent discovery of common pathogenetic mechanisms and above all the involvement of the metabolic pathway of Nrf2 at the basis of cardiovascular, immunological, neurological, and oncological disorders prevalent in the elderly population, has opened new horizons regarding the prevention and possible integration of chemotherapy, pharmacology, and surgery therapies. We are convinced that oxidative medicine and ozone, in particular, can represent a surprising supplement, relatively low cost and without adverse effects. It will also be essential to discuss the potential uses in dentistry and veterinary medicine that are emerging more and more around the World. In summary, we will try to clarify the possible molecular mechanisms underlying the cascade of messengers activated by adequate oxidative stress which, from a purely pharmacological point of view, are very far from the kinetic model represented by the Michaelis-Menten equation on drug-receptor interaction and which could be better defined according to the novel Systems Medicine approach.

Guest Editor

Dr. Lamberto Re

Former Researcher Clinical Pharmacology Department, Marche Polytechnic University, 60021 Camerano, Ancona, Italy

Deadline for manuscript submissions

closed (30 September 2023)



International Journal of Molecular Sciences

an Open Access Journal
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Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



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*International Journal of
Molecular Sciences*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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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

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