



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

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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.





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Message from the Editor-in-Chief

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