

Special Issue

Biological Activities and Biomedical Application of Isatin and Its Analogues

Message from the Guest Editor

Isatin (indol-2,3-dione), an endogenous oxidized indole found in the brain, peripheral tissues, and biological body fluids of humans and animals, exhibits a wide range of biological and pharmacological activities. Proteomic profiling has revealed the existence of a representative group of isatin-binding proteins. The isatin moiety is often used in the design of pharmacological agents, acting as an inhibitor of, e.g., apoptosis; anticonvulsants; and antiviral, anti-bacterial, and antitumor agents.

This Special Issue of the International Journal of Molecular Sciences will focus on the multidisciplinary analysis of mechanisms responsible for the manifestation of biomedical (biological and pharmacological) effects of isatin and its analogues at various levels of structural organization of biological objects with a particular emphasis on their potential medical significance.

Authors are invited to submit their latest original research and reviews of recent experimental data within the scope of this Special Issue, which will cover all biomedical aspects related to both biological activities and biomedical applications of isatin and its analogues.

Guest Editor

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Deadline for manuscript submissions

closed (31 August 2020)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



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*International Journal of
Molecular Sciences*
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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.

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