



New Advances on Photosensitiser or Inhibitors Molecules for Cancer Treatment

Guest Editor:

Dr. Maria Raposo

Laboratory for Instrumentation,
Biomedical Engineering and
Radiation Physics (LIBPhys-
NOVA), Department of Physics,
NOVA School of Science and
Technology, NOVA University of
Lisbon, Campus FCT-NOVA, 2829-
516 Caparica, Portugal

Deadline for manuscript
submissions:

closed (15 March 2024)

Message from the Guest Editor

Dear Colleague,

The photodynamic therapy concept in which low energy radiation is used on cancer cells with added DNA targeted photosensitizing molecules. The irradiation reaching these molecules enhances the generation of reactive oxygen species (ROS) which possesses cytotoxic effect on DNA. This Special Issue of IJMS focuses on the latest developments on new photosensitiser or inhibitors molecules and on the effect of photosensitiser or inhibitors molecules encapsulated or not on biological molecules as DNA and/or DNA repair proteins and on cells in presence of radiation. This Special Issue, “New Advances on Photosensitiser or Inhibitors Molecules for Cancer Treatment”, invites review articles and full-length papers that explore the development or/and the role of photosensitiser or inhibitors molecules near of biological molecules or of cells in presence of radiation. Moreover, papers providing new insights into the development of new systems of encapsulation of these photosensitiser or inhibitors molecules for easier delivery to tumour area are also encouraged.





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 and Molecular Biology) / CiteScore - Q1 (Inorganic Chemistry)

Contact Us

*International Journal of Molecular
Sciences* Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/ijms
ijms@mdpi.com
X@IJMS_MDPI