



an Open Access Journal by MDPI

Iron Metabolism Rewiring and Ferroptosis to Trigger Drug Resistance in Ovarian Cancer

Guest Editor:

Dr. Anna Martina Battaglia

Biochemistry and Molecular Biology Laboratory, Department of Experimental and Clinical Medicine, "Magna Graecia" University of Catanzaro, Catanzaro, Italy

Deadline for manuscript submissions: **31 October 2024**



Dear Colleagues,

Ovarian cancer (OC) is the second most common and lethal malignancy among female reproductive systems. Currently, the chemotherapeutic approach for OC relies on platinum-containing agents that kill cancer cells by triggering apoptosis. However, OC cells can be apoptosisdefective, thus leading to chemoresistance.

Cancer cells show the so-called "iron-addicted" phenotype, characterized by a marked iron uptake and a weak iron efflux. Ferroptosis induction has shown promising antitumor effects in OC cells, but the existence of undefined genetic and metabolic determinants of susceptibility has so far limited the application of ferroptosis inducers in vivo. This Special Issue will cover the following topics:

Ferroptosis as an alternative strategy to target apoptosisresistant OC cells;

Characterization of genetic and metabolic determinants of susceptibility in ferroptosis-resistant OC cells;

Identification of new hallmarks of ferroptosis in OC;

Application of novel iron-based compounds as an alternative therapeutic approach to induce ferroptosis in OC.





mdpi.com/si/201945





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Felipe Fregni

 Neuromodulation Center and Center for Clinical Research Learning, Spaulding Rehabilitation Hospital and Massachusetts General Hospital, Harvard Medical School, Boston, MA 02114, USA
Department of Epidemiology, Harvard T.H. Chan School of Public Health, Boston, MA 02115, USA

Message from the Editor-in-Chief

Biomedicines (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research. biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to Biomedicines, be it original research, review articles, or developing Special Issues of current key topics.

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, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (*Pharmacology & Pharmacy*) / CiteScore - Q2 (*Medicine* (*miscellaneous*))

Contact Us

Biomedicines Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/biomedicines biomedicines@mdpi.com X@Biomed_MDPI