

Special Issue

Redox-Modulating Strategies in Cancer Therapy: Targeted Thioredoxin System Inhibition

Message from the Guest Editor

The mammalian thioredoxin system, including the core components thioredoxins and thioredoxin reductases as well as the related downstream proteins, play a crucial role in maintaining cellular redox homeostasis and regulating diverse signaling pathways. Tumor cells harbor a different redox microenvironment from that of noncancer cells, and this redox microenvironment is pivotal for tumor initiation, proliferation and metastasis. Thus, interfering with redox signaling in cancer cells has been recognized as an emerging strategy for cancer therapy. The Special Issue, "Redox-Modulating Strategies in Cancer Therapy: Targeted Thioredoxin System Inhibition," showcases advancements in thioredoxin system-based cancer therapy. Topics will include but not be limited to the following topics:

- Novel small molecules targeting the thioredoxin system for cancer therapy;
- Novel approaches targeting the thioredoxin system for cancer therapy;
- Novel action mechanisms of redox-interfering molecules;
- Novel redox-dependent signaling pathways in cancer cells;
- Clinical development of thioredoxin system inhibitors;
- Relevant review/commentary articles.

Guest Editor

Prof. Dr. Jianguo Fang

School of Chemistry and Chemical Engineering, Nanjing University of Science and Technology (NJUST), Nanjing 210094, China

Deadline for manuscript submissions

closed (28 February 2025)



Antioxidants

an Open Access Journal
by MDPI

Impact Factor 6.6
CiteScore 12.4
Indexed in PubMed



mdpi.com/si/185887

Antioxidants
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
antioxidants@mdpi.com

[mdpi.com/journal/
antioxidants](https://mdpi.com/journal/antioxidants)





Antioxidants

an Open Access Journal
by MDPI

Impact Factor 6.6
CiteScore 12.4
Indexed in PubMed



[mdpi.com/journal/
antioxidants](https://mdpi.com/journal/antioxidants)



About the Journal

Message from the Editor-in-Chief

It has been recognized in medical sciences that in order to prevent adverse effects of “oxidative stress” a balance exists between prooxidants and antioxidants in living systems. Imbalances are found in a variety of diseases and chronic health situations. Our journal *Antioxidants* serves as an authoritative source of information on current topics of research in the area of oxidative stress and antioxidant defense systems. The future is bright for antioxidant research and since 2012, *Antioxidants* has become a key forum for researchers to bring their findings to the forefront.

Editor-in-Chief

Prof. Dr. Alessandra Napolitano
Department of Chemical Sciences, University of Naples “Federico II”,
Via Cintia 4, I-80126 Naples, Italy

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, FSTA, PubAg, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Chemistry, Medicinal) / CiteScore - Q1 (Food Science)