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Thioredoxin

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Deadline for manuscript
submissions:

closed (31 December 2023)

Message from the Guest Editors

Thioredoxin 1 (Trx1) was originally discovered as an electron donor for *E. coli*'s enzyme ribonucleotide reductase. Since then, intensive research conducted at the molecular, cellular, and organismic level has elucidated the very diverse facets of Trx1. Today, Trx1 is recognized as a key regulator of posttranslational modification of protein thiol groups. Thioredoxin 1 has also been involved in essential cellular processes such as apoptosis, cell proliferation, and the inflammatory response. For this Special Issue, we invite researchers to provide original research articles reporting novel insights into the role of thioredoxin in physiological as well as in pathological processes. Studies involving *in vitro* or *in vivo* models showing potential therapeutic applications of thioredoxin are especially encouraged. We also invite the submission of clinical studies as well as review articles discussing the current knowledge and potential applications of thioredoxin 1 in health and disease.



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Special Issue



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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.

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