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Thioredoxin Family Proteins

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Deadline for manuscript submissions:
closed (30 June 2020)

Message from the Guest Editors

The thioredoxin (Trx) system, comprising nicotinamide adenine dinucleotide phosphate, Trx reductase, and Trx, cooperating with TXNIP/TBP2/VDUP1, is critical for maintaining cellular redox balance and antioxidant function, including control of oxidative stress and cell death.

We invite research and review papers in any area of the redox biology research field that are related, but not limited, to fundamental understanding of TRX and its family molecules, such as peroxiredoxin and gluraredoxin, and signaling pathways, diagnostic, prognostic, and pharmacogenomic biomarkers, molecular targets driving the regulation of human physiology and pathophysiology and clinical trial with new agents, and validation in animal models.

We hope that this Special Issue reflects the exciting era that we are living in with respect to the field of the TRX system and its applications in medicine and health science.

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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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