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Oxidative Stress in Human Toxicology

Guest Editor:

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Deadline for manuscript submissions:
closed (30 October 2022)

Message from the Guest Editor

This Special Issue will focus on exposure to foreign chemicals (xenobiotics) that cause oxidative stress.

Certain xenobiotics and/or their metabolites (e.g. quinones) can directly mediate formation of reactive oxygen species (ROS, e.g. peroxides) that may induce damage to biomolecules. Xenobiotics can also indirectly cause oxidative stress by affecting protective proteins (e.g. antioxidant enzymes, catalytic transition metal transporters or chelators), regulation of vitamins, antioxidants, metals, or else, disturbances that may be toxic. Experimental studies in humans and human relevant models including air-breathing mammals (e.g. rodents, dogs, sheep), extensive *in vitro* (e.g. human cell cultures) studies, but also studies on 'effect biomarkers of oxidative stress' (e.g. from lipid peroxidation or nucleic acid damage) often measured in blood or urine, are welcome. Review articles that describe new mechanisms/mode of actions/key events, e.g. full, or parts of Adverse Outcome Pathways (AOPs) related to toxicants and oxidative stress can also be submitted.

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Editor-in-Chief

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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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