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Oxidative Stress Induced by Air Pollution

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Message from the Guest Editor

There are various types of particles such as fine particle substances (PM2.5), industrial/pharmaceutical nanoparticles, and radiation α/β particles, and their properties are also different. Exposure to pollution containing these particulates is becoming more serious, including health effects. In particular, PM2.5 is involved in the cause of death in big cities and is said to be associated with cardiovascular disease, respiratory disease, and lung cancer. It is known that exposure to these substances induces inflammation at the exposed site and produces reactive oxygen species. Oxidative stress derived from PM affects various cells, and as a result, cell death is induced in some cases. In this process, acute and chronic inflammation is induced, establishing a mechanism by which they have additional biological effects.

Many studies have investigated the relationship between environmentally polluting particulates and health effects using cell-level experiments and animal experiments, but many parts have not yet been resolved. In this Special Issue, we will focus on the oxidative stress caused by air pollution and provide topics that approach urgent issues.

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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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