

Special Issue

Delivery of Gaseous Signal Molecules

Message from the Guest Editor

Gaseous signal molecules such as nitric oxide (NO), carbon monoxide (CO), hydrogen sulfide (H₂S) and other gaseous molecules are produced in almost all tissues in the body and exert regulatory functions in various physiological and pathological processes. These gases share several challenging characteristics such as high volatility, rapid diffusion, short half-lives under physiological conditions as well as complex dose-dependent biological activities. Therefore, there is a need to develop gas delivery systems that enable to deliver controlled amount of gaseous signal molecules for a specific period of time to target cells and tissues. This Special Issue welcomes original research papers and reviews focusing on gas delivery technologies, such as small gas donor compounds, biomaterials and medical devices, to expand our understanding of biological roles of gaseous signal molecules as well as to explore their therapeutic potential, which will lead to innovative approaches for the prevention and treatment of a wide variety of diseases.

Guest Editor

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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

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