Special Issue

Redox Balance and Autophagy

Message from the Guest Editor

Autophagy is an essential and defensive cellular degradation program required for cell survival and metabolic homeostasis in response to various stresses. The induced autophagy ameliorates oxidative stress by degrading not only various malfunctioning organelles but also damaged macromolecules. Autophagy is critical for survival in cells subjected to oxidative stress. The inhibition of autophagy by chemical regulators or the deletion or knockdown of autophagy-related genes results in apoptotic cell death via disrupting the redox balance. In general, cancer cells exhibit increased autophagy, to manage oxidative stress. Therefore, the use of autophagy inhibitors for cancer treatment has been intensively investigated in animal models and clinical trials. The contributions to this issue will include the investigation of the molecular mechanisms by which autophagy restores redox balance; the regulation of autophagy; and the roles of autophagy in diseases related to redox stress such as cancer, inflammation and neurodegenerative diseases. Review articles summarizing the current understanding of the role of autophagy in redox homeostasis are welcome.

Guest Editor

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Deadline for manuscript submissions

closed (15 December 2021)

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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.

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