Special Issue

Oxidative Stress in Hearing Loss—2nd Edition

Message from the Guest Editors

Hearing loss remains a critical global health challenge, with oxidative stress playing a central role in cochlear damage. Oxidative stress, caused by an imbalance between reactive oxygen species production and elimination, is a key mechanism in inner ear injury, leading to sensorineural hearing loss. The cochlea's high metabolic activity makes it highly vulnerable to oxidative damage. This process contributes to age-related hearing loss, noise-induced hearing loss, and ototoxic drug-induced hearing loss. We invite original research articles, reviews, and clinical studies covering, but not limited to, the following topics: Molecular mechanisms of oxidative stress in hearing loss; Novel antioxidant therapies; Mitochondrial-targeted disease mechanism and cochlear protection; Biomarkers of oxidative damage in hearing disorders; Preclinical and clinical studies on antioxidant efficacy.

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Deadline for manuscript submissions

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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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