



Oxidative Stress and Inflammation in Deafness: Current and Future Therapy

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Message from the Guest Editors

Hearing impairment following cochlear damage due to noise trauma, ototoxicity or age-related cochlear degeneration has been linked to a common pathogenesis involving the formation of ROS.

The main objective of this SI is to improve knowledge of overall exogenous-factor--related degeneration of the auditory system, focusing on the roles of oxidative stress, DNA damage and repair, and mitochondrial dysfunction in the pathophysiology of hearing.

Potential topics include but are not limited to the following:

- The model systems used to study hearing loss;
- Environmental and genetic factors contributing to hearing loss;
- The role of mitochondrial dysfunctions in the pathophysiology of hearing loss;
- Role of reactive oxygen species in cell death and senescence of sensory cells;
- MtDNA and nuclear DNA damage and DNA repair in sensory nervous cell degeneration;
- Cross-talk between oxidative stress and inflammation;
- Biomarkers of redox unbalance and inflammation;
- Pharmacological approaches such as antioxidant, mitochondrial metabolic reprogramming to restore hearing loss;
- Regenerative medicine for restoring the sensory inputs;





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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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