

## Special Issue

# Redox Balance and Materials Used in the Treatment of Craniofacial Diseases

### Message from the Guest Editor

Oxygen- and nitrogen-free radicals have a beneficial effect on wound healing and immune response generation and exhibit antibacterial, antiviral and antifungal properties. On the other hand, excessive generation of oxygen/nitrogen-free radicals, while disturbing the balance between their production and neutralization, leads to oxidative damage of cellular proteins, lipids, and nucleic acids. This pathological process is responsible for impairment of the tissue and organ function through its impact on gene expression and cell signaling pathways, growth, differentiation, proliferation, and cell apoptosis. The craniofacial area, including the oral cavity, is subjected to many environmental pro-oxidative factors, and ROS may be a byproduct of resin cements, lasers, endodontic and periodontological treatments, implant, bleaching, inflammation, and anticancer therapies in the head and neck area and many other techniques and therapeutic materials.

We kindly invite researchers to submit original research and review articles on the subject of redox balance and materials used in the treatment of craniofacial diseases.

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### Guest Editor

Prof. Dr. Anna Zalewska  
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Poland

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### Deadline for manuscript submissions

closed (31 August 2022)



## International Journal of Molecular Sciences

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### Message from the Editor-in-Chief

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