



Environmental and Occupational Exposure to Benzene and Oxidative Damage

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Message from the Guest Editors

The International Journal of Environmental Research and Public Health welcomes submissions for a Special Issue of the journal. This Special Issue will focus on environmental and occupational exposure to benzene and oxidative damage.

Benzene is still a chemical with public health concerns, due to its widespread use and its toxicological properties. It has been a long time since the compound was recognized as a human carcinogen, targeting, in particular, human bone marrow, but more recently other relevant health effects have been highlighted, in particular, the risk of male infertility and congenital anomalies.

In the context of environmental exposure to benzene, children are a particularly susceptible as potential targets.

A main toxicological mechanism through which benzene exerts its health effects is the induction of oxidative stress, which is linked, in particular, to its metabolism. Oxidative stress may cause multiple downstream consequences in different organs, including direct and indirect genetic damage and genetic dysregulation related to interference to epigenetic mechanisms.





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Message from the Editor-in-Chief

Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Scientific discoveries and advances in this research field play a critical role in providing a rational basis for informed decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards.

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