

Special Issue on Potential Biomarkers of Environmental Chemical Carcinogens on Human Health Toxicology

CALL FOR PAPERS

In humans, environmental contaminants and substance-associated disruptions to health provide crucial biomarkers with compelling evidence of adverse effects; however, the associated thresholds are of limited predictive or preventative value regarding damage to health. Health molecular biomarkers, which may be evaluated to indicate subtle changes at the subcellular level, may facilitate overcoming these limitations. These biomarkers have been used for decades and are garnering attention in the fields of environmental and human health science.

This special issue on a topic of human health toxicology is focused on the molecular mechanisms whereby chemicals cause toxicity. It is intended to present and discuss the effects of environmental contaminants and substance use in molecular toxicology, covering health-based adverse outcome pathways and examining pertinent strengths and limitations of health biomarkers. The evaluation and identification of biomarkers to the field of human health are investigated. With continued research and development, molecular toxicology biomarkers may improve the understanding of the mechanisms underlying injury to environmental relevant organisms; the findings of this research could complement other measures of health effects and be integrated into risk assessment for relevant conditions.

We invite researchers to contribute and review original research articles describing recent findings and future perspectives regarding human biological systems that are affected by and respond to adverse xenobiotics and environmental exposures. Additionally, research on environmental toxicology is encouraged within a broad range of areas including environmental risk assessment, medicine development processes, degenerative diseases (e.g., cancer), microbiology, immunology, and parasitology.

Potential topics include but are not limited to the following:

- ▶ Biomarkers discovery and biomonitoring of health system toxicology
- ▶ Substance use with potential toxicology risks concerning the health of humans
- ▶ Monitoring and assessment of substance toxicity
- ▶ Exposome-health associations, as related to disease, clinical practice, advanced techniques for assessing potential toxicity, and mechanisms underlying toxicology
- ▶ Quantitative toxicology technologies for clinical applications

Authors can submit their manuscripts through the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/bmri/toxicology/iaeb/>.

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