Special Issue

Toxicity and Ecotoxicity Mechanisms of Heavy Metals on Human Health and Environment

Message from the Guest Editors

This Special Issue will elucidate the molecular mechanisms of metal-induced carcinogenesis and other metabolic disorders and will focus on a variety of pathways, including genotoxicity, mutagenesis, oxidative stress, epigenetic modifications such as DNA methylation, histone post-translational modification and alterations in microRNA regulation, competition with essential metal ions, disorders of energy metabolism, amino acid metabolism, osmoregulation, and cancer-related signaling pathways. This Special Issue takes a broader perspective and aims to assist in guiding future research, with respect to the prevention and therapy of metal exposure in living organisms with diseases including cancer, neurotoxicity, cardiovascular disease, chronic disease, coronary artery disease and different metabolic disorders.

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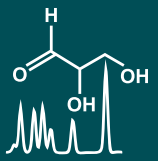

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Message from the Editor-in-Chief

The metabolome is the result of the combined effects of genetic and environmental influences on metabolic processes. Metabolomic studies can provide a global view of metabolism and thereby improve our understanding of the underlying biology. Advances in metabolomic technologies have shown utility for elucidating mechanisms which underlie fundamental biological processes including disease pathology. *Metabolites* is proud to be part of the development of metabolomics and we look forward to working with many of you to publish high quality metabolomic studies.

Editor-in-Chief

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