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

Guest Editors:

Dr. Rashid Mir
Department of Medical Laboratory Technology, Division of Molecular Biology, University of Tabuk, Tabuk 71491, Saudi Arabia

Prof. Dr. Marianne Graber
La Rochelle, laboratoire LIENSs UMR CNRS 7266, Bâtiment Marie Curie, Avenue M. Crépeau, CEDEX 1, 17042 La Rochelle, France

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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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Editor-in-Chief

Dr. Amedeo Lonardo

1. Formerly Director of the Simple Operating Unit "Metabolic Syndrome", Azienda Ospedaliero-Universitaria, 41126 Modena, Italy
2. Formerly Professor of Internal Medicine, School of Specialization of Allergology and Clinical Immunology, University of Modena and Reggio Emilia, 41121 Modena, Italy

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.

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Contact Us

Metabolites Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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metabolites@mdpi.com
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