



an Open Access Journal by MDPI

Application of Metabolomics to Study Osteoarticular Diseases

Guest Editor:

**Prof. Dr. Nury Pérez-
Hernández**

Escuela Nacional de Medicina y
Homeopatía, Instituto
Politécnico Nacional Ciudad de
México, Mexico City, Mexico

Deadline for manuscript
submissions:

15 January 2025

Message from the Guest Editor

Dear Colleagues,

Metabolomics has applications in clinical diagnostics, prognostics, and the discovery of biomarkers or evaluation of drug responses in various bone and joint pathologies. Techniques like nuclear magnetic resonance (NMR), mass spectrometry (MS) coupled with separation techniques such as liquid chromatography (LC), gas chromatography (GC), and supercritical fluid chromatography (SFC) have been successful in identifying key players in metabolic pathways in osteoarticular disorders such as osteoporosis, osteomalacia, Paget's disease, osteomyelitis, rheumatoid arthritis, osteoarthritis, crystal arthropathies, septic arthritis, periprosthetic reactions, benign and malignant soft tissue and bone tumors, benign and malignant bone tumors.

This Special Issue aims to showcase recent and innovative studies using metabolomics in osteoarticular disorders. Contributions focusing on NMR, MS, or other techniques applied to bone, cartilage cells, tissues, and fluids are welcome. Moreover, this Special Issue also invites critical opinions, communications, and reviews.

Prof. Dr. Nury Pérez-Hernández
Guest Editor



mdpi.com/si/202510

Special Issue



an Open Access Journal by MDPI

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Biochemistry & Molecular Biology*) / CiteScore - Q2 (*Endocrinology, Diabetes and Metabolism*)

Contact Us

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

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/metabolites
metabolites@mdpi.com
[X@MetabolitesMDPI](https://twitter.com/MetabolitesMDPI)