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Application of Metabolomics to Study Osteoarticular Diseases

Guest Editor:

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Deadline for manuscript submissions:
15 January 2025

Message from the Guest Editor

Dear Colloeagues,

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

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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.

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

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