Special Issue

Molecular Research in Osteoporosis

Message from the Guest Editors

Osteoporosis is the most prevalent bone disease, characterized by the micro-architectural deterioration of bone tissue, often associated with decreased muscle mass. Bone and muscle are intimately connected biomechanically and biochemically, together constituting the bone–muscle unit. The presence of low bone and muscle quality, reflecting the concomitant diagnosis of osteoporosis and sarcopenia, is currently referred to as “osteosarcopenia”. The pathogenesis of osteoporosis reflects complex interactions among genetic, hormonal, and environmental factors, which have not yet been fully characterized. In-depth explorations of epigenetic mechanisms, such as DNA methylation, non-coding RNAs, and histone modification, may better define the signatures of the impaired bone metabolism. This Special Issue will summarize the current knowledge on the molecular mechanisms underlying osteoporosis. To this end, we are pleased to invite submissions of research articles and reviews addressing the characterization of novel genetic and transcriptomic biomarkers of osteoporosis to implement clinical tools against bone–muscle unit decay.

Guest Editors

Dr. Virginia Visconti
Dr. Annalisa Botta
Prof. Dr. Umberto Tarantino

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About the Journal

Message from the Editor-in-Chief

Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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