

Special Issue

Current Diagnosis and Management of Metabolic Bone Diseases

Message from the Guest Editor

Metabolic bone diseases (MBDs), including osteoporosis, diabetic osteopathy, and hepatic osteodystrophy, present a growing global burden, worsened by aging and metabolic disorders. This Special Issue tackles key gaps in early detection and personalized care, as MBDs often go undiagnosed until fracture. We invite cutting-edge research on:

- Novel biomarkers (e.g., bone turnover markers, metabolites, endocrine/immune factors) for better diagnosis and fracture prediction;
- Imaging advances like photon-counting DXA and AI-enhanced bone analysis, moving beyond BMD for risk assessment;
- Pharmacotherapy innovations, including GLP-1 agonists for improving bone health in diabetes, and skeletal safety of anti-diabetic drugs;
- Multiorgan–bone axis mechanisms, where bone acts as an endocrine organ interacting with liver, brain, kidneys via osteokines to regulate homeostasis.

This issue connects translational research with clinical practice to improve risk stratification, treatment monitoring, and precision medicine. Submissions on genomic/proteomic studies, AI diagnostics, and multidisciplinary work are encouraged.

Guest Editor

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