

Special Issue

Regulation of Bone Mineral Homeostasis

Message from the Guest Editors

Strictly spoken, regulation of bone mineral homeostasis involves the maintenance of the intra- and extracellular levels of calcium and phosphate within a relatively narrow range primarily involving the skeleton, intestine, and kidneys and is achieved through the interplay of three hormones, i.e., parathyroid hormone, the active metabolite of vitamin D 1,25 dihydroxyvitamin D, and fibroblast growth factor 23 (FGF23). Hormonal regulation of bone mineral homeostasis is, however, much more complex and requires the involvement of additional endocrine regulators. And the involvement of other factors in calcium-phosphate handling such as pH, sodium, potassium, magnesium, fluoride, bicarbonate, and sulfate should be recognized. All these factors may be dysregulated in particular disease states like chronic kidney disease and diabetes, genetic disorders, and aging and are targeted using appropriate therapeutics.

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