



The Role of Mg Homeostasis in Disease

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Message from the Guest Editor

Dear Colleagues,

Magnesium is the fourth most abundant mineral in the body, with the vast majority of it being stored in bone. Maintaining adequate magnesium levels is key to health. In this regard, hypomagnesemia has been related to diseases such as osteoporosis or cardiovascular diseases and has also been associated with mortality. At the molecular level, magnesium is capable of modulating membrane receptors such as the transient receptor potential melastatin-subfamily member 7 (TRPM7) or the calcium-sensing receptor (CaSR), regulating signaling pathways involved in many cellular functions such as cell differentiation, proliferation, inflammation, etc.

The aim of this Special Issue is to compile the latest scientific advances on the role of magnesium homeostasis in disease, such as kidney disease, diabetes, osteoporosis, genetic diseases, cardiovascular disease, and cancer, among others. In addition, the role of magnesium in the control of cellular processes such as oxidative stress or inflammation will also be discussed.

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Guest Editor





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Message from the Editor-in-Chief

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