



The Role of Mg Homeostasis in Disease

Guest Editor:

Dr. Juan Miguel Diaz-Tocados

Vascular and Renal Translational
Research Group, Biomedical
Research Institute of Lleida
(IRBLleida), Arnau de Vilanova
University Hospital, 25198 Lleida,
Spain

Deadline for manuscript
submissions:
closed (15 April 2024)

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.

Dr. Juan Miguel Diaz-Tocados
Guest Editor





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Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of
Odontostomatologic and
Specialized Clinical Sciences,
Sez-Biochimica, Faculty of
Medicine, Università Politecnica
delle Marche, Via Ranieri 65,
60100 Ancona, Italy

Message from the Editor-in-Chief

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