



The Role of Magnesium Status in Human Health

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Deadline for manuscript
submissions:

25 February 2025

Message from the Guest Editor

Cardiovascular deaths, including ischaemic heart disease and stroke, account for the top two global causes of death. Magnesium is the fourth most abundant cation in the human body and is involved in several essential physiological, biochemical, and cellular processes regulating cardiovascular function. In the heart, magnesium plays a key role in modulating neuronal excitation, intracardiac conduction, and myocardial contraction by regulating a number of ion transporters, including potassium and calcium channels. Magnesium also has a role in regulating vascular tone, atherogenesis and thrombosis, vascular calcification, and the proliferation as well as migration of endothelial and vascular smooth muscle cells. As such, magnesium has a major influence on the pathogenesis of cardiovascular disease.

This Special Issue is to provide cutting-edge research, especially original (epidemiological, clinical, and experimental) and review articles (including systematic reviews and meta-analyses), regarding the relationship between dietary magnesium intake and heart failure, coronary heart disease, and cardiovascular disease and/or risk factors in different populations.





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