



The Role of Micronutrients in Metabolic and Infectious Diseases

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Message from the Guest Editor

Micronutrients, such as vitamins and minerals, play a crucial role in human health and have garnered increasing attention in scientific research. Deficiencies in certain micronutrients, such as vitamin D or zinc, have been linked to a higher risk of metabolic diseases like type 2 diabetes and infectious diseases such as viral infections.

Molecular studies enable the investigation of how these nutrients impact cellular function, immune response, and inflammation. Furthermore, they provide valuable insights for the development of therapeutic strategies based on the modulation of micronutrient levels. Research on cell cultures has demonstrated that micronutrients play an essential role in the prevention and treatment of metabolic and infectious diseases, opening new avenues for improving human health.

Therefore, this monograph focuses on the role of micronutrients in metabolic and infectious diseases, assessed through in vitro and in vivo studies, including cell culture assays, as well as in silico studies via computational approaches.





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Message from the Editor-in-Chief

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