

## Special Issue

# Micronutrients in Cancer: Molecular Mechanisms, Epidemiological Evidence, and Clinical Applications

### Message from the Guest Editors

Micronutrients—including vitamins, minerals, and trace elements—play essential roles in cellular metabolism, redox balance, immune function, and genomic stability. Changes in micronutrient status can affect key pathways in carcinogenesis, such as DNA repair, oxidative stress, inflammation, and epigenetic regulation. These broad functions have increased interest in understanding how micronutrients contribute to cancer prevention, progression, and treatment response. Epidemiological studies associate both the deficiency and excess of micronutrients with variations in cancer risk, although establishing causality remains challenging due to genetic, environmental, and lifestyle influences. Advances in molecular biology and biomarker research are gradually clarifying these complex relationships. Clinically, some micronutrients show potential as adjuncts to conventional therapies by enhancing efficacy or reducing toxicity. However, their effects are often context-dependent, highlighting the need for well-designed mechanistic and translational studies.

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### Guest Editors

Prof. Dr. Rozangela Curi Pedrosa

Department of Biochemistry, Centre for Biological Sciences, Federal University of Santa Catarina, Florianópolis, SC, Brazil

Prof. Dr. Karina Bettega Felipe

Department of Clinical Analysis, Federal University of Parana, Curitiba, Brazil

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### Deadline for manuscript submissions

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## Nutrients

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*Nutrients*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[nutrients@mdpi.com](mailto:nutrients@mdpi.com)

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### Message from the Editorial Board

*Nutrients* is an on-line open access journal that was first published in 2009. *Nutrients* adheres to rigorous peer-review and editorial processes and publishes only high quality manuscripts that address important issues related to the impacts of nutrients on human health. The Impact Factor of *Nutrients* has risen rapidly since its establishment and it is now ranked in the first quartile of journals publishing in the field of nutrition and dietetics research.

### Editors-in-Chief

Prof. Dr. Lluís Serra-Majem

1. Centro de Investigación Biomédica en Red Fisiopatología de la Obesidad y la Nutrición (CIBEROBN), Institute of Health Carlos III, 28029 Madrid, Spain
2. Research Institute of Biomedical and Health Sciences (IUIBS), University of Las Palmas de Gran Canaria, 35001 Las Palmas, Spain
3. Preventive Medicine Service, Centro Hospitalario Universitario Insular Materno Infantil (CHUIMI), Canarian Health Service, 35016 Las Palmas, Spain

Prof. Dr. Maria Luz Fernandez

Department of Nutritional Sciences, University of Connecticut, Storrs, CT 06269, USA

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