

## Special Issue

# The Potential of Gut Microbiota in Cancer

### Message from the Guest Editor

The role of GI bacteria in local carcinogenesis, such as *Helicobacter pylori* in gastric cancer, is well-known. However, it is now clear that GI tract microorganisms also influence systemic health and disease, including cancer.

Numerous studies show that microbial dysbiosis contributes to cancer susceptibility by inducing inflammation, immune dysregulation, and interfering with anticancer agents' pharmacodynamics. Immunotherapy, particularly immune checkpoint blockade (ICB), has significantly improved cancer survival rates, but its efficacy is limited by resistance to treatment. Emerging evidence indicates that GI microorganisms influence ICB response, distinguishing healthy individuals from cancer patients and responders from non-responders.

These insights have led to new microbiome-based treatment strategies aimed at modulating gut microorganisms to reduce cancer risk and enhance ICB response. Promising interventional strategies include fecal microbiome transplant (FMT), prebiotics, probiotics, antibiotic treatments, and dietary interventions.

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### Guest Editor

Dr. Stefano Realdon

CRO Centro Riferimento Oncologico IRCCS Aviano Italy, Via Franco Gallini, 2, 33081 Aviano, PN, Italy

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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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*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.

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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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