

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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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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