

Special Issue

Mechanistic Insights into the Role of Nutrition in Carcinogenesis and Cancer Care

Message from the Guest Editor

Cancer is a major global health threat, associated with high morbidity and mortality. Genetic, epigenetic, and environmental factors contribute to its development. Diet plays a key role in the pathogenesis of many cancers. Dietary components and patterns are linked to carcinogenesis through inflammation, oxidative stress, and abnormal cell growth. Unhealthy diets also promote obesity and diabetes mellitus, both strongly associated with cancer risk and progression. Cancer patients undergo multiple therapies and often experience symptoms that reduce nutritional intake, leading to malnutrition, sarcopenia, and cachexia, which negatively affect outcomes and treatment efficacy. Recognizing the role of diet in cancer provides an effective strategy for primary prevention. Dietary interventions that prevent obesity and diabetes mellitus are also important for cancer prevention and management. Nutritional strategies, including personalized counseling, supplementation, and maintaining a healthy body mass index, together with pharmacological approaches, can support patients during treatment and improve overall prognosis.

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Deadline for manuscript submissions

closed (20 February 2026)



Nutrients

an Open Access Journal
by MDPI

Impact Factor 5.0
CiteScore 9.1
Indexed in PubMed



mdpi.com/si/247938

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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.

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