

Special Issue

The Role of Microbiota in Cancer Development and Therapy

Message from the Guest Editor

This Special Issue aims to explore the complex and increasingly recognized role of the human microbiota in cancer development, progression, and treatment response. Microbial communities residing in the gut, oral cavity, skin, and other body sites have profound effects on host immunity, metabolism, and inflammation—key factors influencing tumorigenesis. Recent advances highlight the microbiota's dual role: certain microbial populations contribute to carcinogenesis, while others exhibit protective or therapeutic potential. Areas of interest include, but are not limited to, the following:

- Mechanistic links between dysbiosis and cancer initiation or progression;
- The impact of microbiota on tumor microenvironment and immune modulation;
- Microbial biomarkers for cancer risk, prognosis, and therapy response;
- The influence of microbiota on chemotherapy, radiotherapy, and immunotherapy efficacy and toxicity;
- Microbiome-targeted interventions (e.g., probiotics, antibiotics, fecal microbiota transplantation) in cancer prevention and treatment;
- Interactions between diet, microbiota, and cancer;

Guest Editor

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About the Journal

Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

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JCR - Q2 (Microbiology) / CiteScore - Q1 (Microbiology (medical))

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.2 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2025).