

## Special Issue

# Microbiome in Cancer: From Pathogenesis to Therapeutic Innovation

### Message from the Guest Editors

Recent studies highlight the critical role of the microbiome in modulating the efficacy and resistance of anticancer therapies. As cancer remains a significant global health burden, understanding the molecular interactions between the microbiome and anticancer drugs could unveil novel strategies to overcome drug resistance. This Special Issue titled “Molecular Studies on the Impact of Microbiome on Anticancer Drug Resistance” aims to gather original research and comprehensive reviews that delve into these complex interactions. We invite contributions that explore how microbiome composition, metabolic pathways, and microbial-derived molecules affect cancer cell responses to therapies. Topics of interest include, but are not limited to, the role of microbial metabolites, immune modulation by microbiota, microbiome-influenced drug metabolism, and the identification of microbiome-based biomarkers for therapy resistance.

This issue also welcomes studies examining how targeted manipulation of the microbiome composition and its metabolites might improve therapeutic outcomes or reduce side effects.

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### Guest Editors

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### Deadline for manuscript submissions

closed (20 May 2026)



## International Journal of Molecular Sciences

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The *International Journal of Molecular Sciences (IJMS)* is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, and molecular biophysics. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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