

Special Issue

Tumor Microbiome: A New Frontier in Cancer Therapy and Vaccines

Message from the Guest Editor

The tumor microbiome is increasingly recognized as a key player in cancer biology, with profound effects on tumor development, immune modulation, and treatment responses. Rather than being passive occupants, microbes within the tumor microenvironment actively influence inflammation, immune cell behavior, and sensitivity to therapies such as immunotherapy. These discoveries have opened new paths for therapeutic innovation, including the development of microbiome-informed diagnostics, vaccines, and combination treatments. By decoding the complex interactions between tumors and their resident microbes, researchers can uncover novel strategies with which to enhance treatment efficacy and personalize cancer care. This Special Issue brings together recent advances that bridge microbiology, oncology, and immunotherapy, with a focus on translating these findings into clinical benefits.

Guest Editor

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Message from the Editor-in-Chief

The worldwide impact of infectious disease is incalculable. The consequences for human health in terms of morbidity and mortality are obvious and vast but, when infections of animals and plants are also taken into account, it is hard to imagine any other disease that has such a significant impact on our lives—on healthcare systems, on agriculture and on world economics.

Pathogens is proud to continue to serve the international community by publishing high quality studies that further our understanding of infection and have meaningful consequences for disease intervention.

Editor-in-Chief

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