

Special Issue

Gut Microbiota and Gastrointestinal Cancer: Pathways to Progression and Opportunities for Intervention

Message from the Guest Editors

The human gut microbiota, consisting of trillions of microorganisms, plays a crucial role in maintaining overall health, particularly within the gastrointestinal (GI) system. Recent research has uncovered a complex relationship between the gut microbiota and gastrointestinal cancers, which include colorectal, gastric, pancreatic, and esophageal cancers. This Special Issue (SI) aims to explore the various mechanisms by which gut microbiota contributes to gastrointestinal cancer progression, with a focus on microbial-induced inflammation, immune modulation, and metabolic alterations. Additionally, the SI will investigate the emerging opportunities for microbiota-targeted interventions, including probiotics, prebiotics, dietary modifications, and fecal microbiota transplantation, as promising therapeutic approaches to combat cancer and improve patient outcomes.

By integrating cutting-edge research, this Special Issue will contribute to a better understanding of the intricate interactions between gut microbiota and gastrointestinal cancers, providing novel insights that could lead to more effective diagnostic and therapeutic strategies.

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