



## The Microbiota and Its Association with Cellular Transformation and Metabolic Changes 2.0

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### Message from the Guest Editors

Dear Colleagues,

In recent years, scientists have made significant discoveries concerning the link between human microbiota and both human cancers and metabolic changes. New findings suggest altered immune responses, metabolism shifts, and dysregulated kinase activation, which potentially impairs cellular signal transduction. In vitro studies also revealed that certain bacteria can drive epigenetic changes, and stimulate the production of inflammatory substances that may cause DNA damage. In vivo experiments have demonstrated that administering cancer-causing agents to germ-free animals results in less tumor formation compared to non-germ-free mice. However, the exact mechanisms of cellular transformation remain largely mysterious. This Special Issue aims to gather original research articles and review papers exploring any aspect of the interaction between the human microbiota and host cells. The focus is on the description and elucidation of the potential molecular mechanisms that may promote cellular transformation and metabolic changes, we also encourage the submission of papers examining its effects on cardiovascular diseases, diabetes, and reproductive issues, among others.





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## Message from the Editor-in-Chief

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