

Special Issue

The Gut Microbiota and Autoimmune Disease

Message from the Guest Editors

The intestinal microbiota is an important component of the body that exists in symbiosis with the host and helps with various functions, e.g., digesting insoluble fibers. More importantly, the intestinal microbiota is necessary for the proper development of the immune response and a dysbiotic intestinal microbiota has been associated with development of autoimmune diseases. Furthermore, intestinal microbiota is not only associated with induction of autoimmunity but also its prevention. High-throughput human multi-omics data, including metagenomics and metabolomics data, have shed some light on potential mechanisms by which autoimmune diseases can be induced or prevented. Through this issue, we will discuss the current knowledge of how the intestinal microbiota and derived microbial compounds may be associated with pathogenesis or prevention of autoimmunity. The aim of this Special Issue of *Microorganisms* is to present a collection of articles that provide a snapshot of current research into the effects of the gut microbiota on autoimmunity and inflammatory disease such as colitis. Manuscripts covering all aspects of research relating to this area are welcome.

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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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