

Special Issue

Gut Microbiota Metabolites in Intestinal Inflammation and Fibrosis

Message from the Guest Editors

Intestinal microbiota are a dynamic ecosystem, constantly in communication with both the host and the external environment. Among their many benefits to the human organism, such as the development and function of the gastrointestinal tract and intestinal immune system, microbiota also play a crucial role in defense and nutrient supply. These latter two can be accomplished through either microbial antagonism or microbial metabolic activity. Microbial metabolic activity is implicated in a number of processes, such as the fermentation of food carbohydrates, metabolism of xenobiotic substances, production of vitamins, as well as defense against pathogens. Nonetheless, disruption in the composition of the intestinal microbiota leads to a state of dysbiosis, which can also be observed at the metabolic level, and has been associated with various disorders as well as diseases of the digestive tract in addition to other organs and systems of the body.

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