



## Nutraceuticals for Treatment of Inflammatory Bowel Disease (IBD)

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### **Message from the Guest Editors**

Inflammatory bowel disease (IBD) is a chronic inflammatory disease of the gastrointestinal tract. Over the past 10 years, many studies amply demonstrate that nutraceuticals could be used in the prevention and treatment of IBD and sought better alternative or supplementary treatment methods for IBD patients. Furthermore, nutraceuticals regulate intestinal immune homeostasis and improve intestinal barrier function. For example, the therapeutic effects of polyphenols in IBD include a reduction in local oxidative stress, the regulation of NF- $\kappa$ B and mitogen-activated protein kinase (MAPK) signaling pathways, and the downregulated secretion of inflammatory factors such as TNF- $\alpha$  and IL-8. Furthermore, the therapeutic effect of resveratrol on IBD was attributed to reducing oxidative stress, inhibiting the activation of NF- $\kappa$ B, and reducing proinflammatory cytokines and prostaglandins. Therefore, it is favourable to verify the usefulness of nutraceuticals in order to promote the intestinal microbiota as the first line of prevention and ensure a fair balance between the populations of microorganisms that inhabit the human gastrointestinal tract.





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