



BioMed Research International

Special Issue on  
**Recent Advances and Future Perspective in  
Microbiota and Probiotics**

# CALL FOR PAPERS

Recent studies have highlighted the critical role of intestinal microbes in health. The various bacterial communities in the gut have many functions including metabolic, barrier effect and trophic and immunological functions. In addition, there is a growing body of evidence to support the potential use of probiotics in the prevention and treatment of various human and animal diseases. Numerous studies including different probiotic strains have been performed in humans and animal models to investigate their beneficial effects. Overall, there is encouraging evidence that specific probiotic strains are valuable in the prevention and treatment of different diseases and their successful application is related to the better understanding of the cellular and molecular mechanisms of probiotic action.

In this special issue, authors will focus on microbiota, their effect on gut health, and the consequences of their alterations. In addition, expert international authors will describe the most recent cutting-edge research in the use of probiotics and their bioactive compounds to prevent and improve different health disorders. We are interested in articles that explore aspects of microbiota and probiotic actions in humans and also in animals. We invite authors to submit original research and review articles that seek to advance in the understanding of commensal microorganisms or probiotics' actions as well as novel applications of probiotics.

Potential topics include, but are not limited to:

- ▶ Novel findings regarding the role of the microbiota in gut health
- ▶ Advances in the understanding of the molecular mechanisms involved in commensal microorganisms interactions with the host
- ▶ Use of probiotics in the prevention and improvement of inflammatory, infectious, atopic diseases and cancer
- ▶ Advances in the understanding of the cellular and molecular mechanisms involved in probiotics' action
- ▶ Novel applications of probiotics
- ▶ Identifying biomarkers of probiotic activity
- ▶ New cellular and animal models to test and understand probiotics' actions

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