

Special Issue

Recent Advances and Future Perspective in Microbiota and Probiotics

Message from the Guest Editor

A number of diseases are associated with alterations in the composition of the microbiota of various niches of higher organisms. Although, in most cases, it is unclear if these alterations are the cause or the consequence of disease, they provide a rationale for therapeutic or prophylactic manipulation of a dysbiotic microbiota. Approaches to manipulate the microbiome often include administration of live bacteria, so-called probiotics. Probiotics are generally defined as live microorganisms that upon use in specific and sufficient numbers confer health benefits to the host. Recognition of the beneficial effects of some bacteria has encouraged the development of probiotics as treatment for disease. There are several bacterial strains or products, which have a long tradition of use and a somehow interesting history. In this Special Issue, we want to create a platform for high-quality publications on the various aspects of the history, application, and especially molecular interactions of probiotics in plants, animals, and humans.

Guest Editor

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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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