Special Issue

Microbes as Functional Food: Genomics and Metabolomics Surveys of Bacterial Probiotic Strains

Message from the Guest Editor

The characterization and use of probiotic strains have become an attractive alternative for the treatment of prevalent maladies such as CD, IDB/IBS, CeD, UC, and obesity, among others, resulting frequently in an amelioration of the respective symptoms. Advances in anaerobe culturing techniques have permitted to reexamine the so-called "non-cultivable" microbial species present in the human gut. Accordingly, new culture media and better protocols and equipment have made possible the recovery of indigenous and prevalent microbial species of the human GIT, thus permitting to explore in depth their growth conditions, nutritional requirements, genomes, gene expression patterns, and metabolic circuits. The aim of this Special Issue is to present the characterization of potential new probiotic strains using cutting-edge technology to describe: (1) their **genetic traits of interest** for disease prevention; (2) in vitro and in vivo studies of synbiotic products (probiotics+prebiotics); (3) gene expression and metabolic products released when exposed to prebiotics; and (4) production of metabolites with impact on the gut-brain axis function.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Foods (ISSN 2304-8158) is an open access and peer reviewed scientific journal that publishes original articles, critical reviews, case reports, and short communications on food science. Articles are released monthly online, with unlimited free access. Currently, Foods has been indexed by the Science Citation Index Expanded (SCIE - Web of Science), PubMed, and Scopus. Our aim is to encourage scientists, researchers, and other food professionals to publish their experimental and theoretical results as much detail as possible. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global food science community.

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