

Special Issue

Dietary Nutrition and Gut Microbiota

Message from the Guest Editors

There is growing evidence that the relationship between the intestinal microbiota and individual health outcomes is influenced by diet. Consumption of various nutrients affects the composition of the gut microbial community and provides metabolites that influence the host's physiology. Diet characteristics, including macronutrient balance and diet patterns and restrictions, bacteria in and on foods, a wide range of potentially prebiotic compounds and the degree of processing/cooking influence gut homeostasis through its impact on bacterial metabolism and have consequences for the immune and metabolic response. Acquiring knowledge of these aspects, especially through an omics-integral approach, might provide the basis for personalized nutritional interventions aimed at avoiding dysbiosis and its contribution to major chronic degenerative diseases. In this scenario, any investigation on dietary nutrition and the shape and function of the microbiota in relation to health and the prevention or treatment of disease, is welcome in this Special Issue.

Guest Editors

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Deadline for manuscript submissions

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Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

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