Special Issue

Novel Research on Microbial Communities in the Food Chain

Message from the Guest Editors

Microorganisms in all the ecosystems, including the ocean, soil, and the human body, live within complex, multispecies communities, forming an intricate network of relations in the form of metabolites and genetic materials. Due to their complexity, it is often extremely difficult to understand how these communities work and characterise their members, which can be often unculturable and for this reason not yet identified.

This Special Issue aim to provide an overview of the significance of studying microbial communities in the food chain, discuss the current state of the research in this field, the methods for facilitating the isolation, development and harnessing of new starter strains, adjuncts, probiotics, with accompanying novel flavour, metabolic, and health-promoting functionalities. It also aims to report on the knowledge around conventional culture-based investigations of the microbiology of food chains complemented by cutting edge metagenomic-based methods and bioinformatic analysis to provide even greater insight into the fascinating systems biology and applied microbiology.

Guest Editors

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Deadline for manuscript submissions

closed (10 February 2023)



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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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