Special Issue

Bioprospecting the Gut Microbiome

Message from the Guest Editors

Changes in the bacterial composition of the gut microbiota are now intrinsically linked to the development of a wide number of disease states. In fact, it is now clear that the gut microbiome, as an environment, plays an important role in modulating the risk of developing a number of chronic diseases. Indeed, altered bacterial community homeostasis in the gastrointestinal tract has already been linked to a number of human diseases ranging from: obesity and diabetes, neurological function and GI disorders (such as IBS and IBD). As Next Generation Sequencing technologies have improved, so has our ability to monitor the changes in the microbial composition of the gastrointestinal tract; to isolate, identify and characterize individual bacterial species; and link gastrointestinal dysbiosis with specific disease states. In this special collection, we invite investigators to submit manuscripts which focus on the identification and genomic characterization of microorganisms and changes in bacterial communities that could be associated with human health and disease states. We also call for manuscripts that propose biotherapeutic interventions to ameliorate gastrointestinal dysbiosis.

Guest Editors

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Deadline for manuscript submissions

closed (30 September 2022)

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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.

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