Special Issue

Interactions between Food Chemistry and Gut Microbiota

Message from the Guest Editors

This Special Issue is devoted to “Interactions Between Food Chemistry and Gut Microbiota”. It will cover a selection of current research topics, including but not limited to the following:

- The identification of specific microorganisms and enzymes involved in the modulation of gut microflora alteration and metabolic processes, particularly those associated with the metabolism of dietary components and some host-generated substances.
- The digestion, bioavailability, bioaccessibility, and transformation of bioactive compounds of the food matrix that affect the composition and function of the gut microbiota associated with host health and disease.
- Novel methodologies to explore the interactions between the gut microbiota, diet, and host.
- The molecular and cellular mechanisms underlying the role of the gut microbiota in food tolerance and allergies.
- The development of functional food with beneficial impacts on gut health and the overall well-being of the host;
- Emerging technologies for food processing to improve its nutritional and bioactive compounds that have beneficial effects on the gut microbiota and metabolic syndrome.

Guest Editors

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Dr. Qiuqin Zhang

Dr. Di Zhao

Deadline for manuscript submissions

closed (30 September 2023)

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Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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