Special Issue

Nutritional Components of Non-Animal Origin Foods: Structure, Synthesis, Functions and Mechanisms

Message from the Guest Editors

Dear Colleagues: This special issue highlights the most recent knowledge and advances in nutrition in foods of non-animal origin. Original research and review articles with the following subject, but not limited, are welcome:

- Structure, component, synthesis, and regulation of the macro nutrition (carbohydrates, proteins, fatty acids) in food materials, including key genes and their regulation network;
- Structure, component, synthesis, and regulation of the micronutrition (vitamins and bioactive compounds) in food materials, including key genes and their regulation network;
- Chemical and medicinal value studies of food materials, especially the homologies of medicine and food;
- Functions and the mechanisms therein of non-animal origin foods derived nutritional components by in vitro and in vivo research in the field of health-keeping and disease treatment;
- Biotech-based and non-biotech-based biofortification of nutritional components in food materials;
- Processing of food materials for nutritional phytochemicals enhancement and easier nutrition intake.

Guest Editors

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Dr. Zhengyi Wei
Prof. Dr. Tiehua Zhang

Deadline for manuscript submissions

closed (30 April 2026)

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Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 30th 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 all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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