Special Issue

Prebiotics in Health and Disease

Message from the Guest Editors

Prebiotics are defined as "selectively fermented ingredients that result in specific changes, in the composition and/or activity of the gastrointestinal microbiota, thus conferring benefit(s) upon host health". The human Gut Microbiome (GM) contains highly diverse microbial communities that provide metabolic. immunologic, and protective functions that play a crucial role in human health. The interaction of prebiotics and prebiotic-like fibers with GM has been the subject of intense research during the last decade, considered as the most significant development in nutrition research; diet regulates the composition and metabolic function of the GM. Therefore, consumption of specific dietary fibers and prebiotics could promote health and prevent disease. This Special Issue aspires to present current developments regarding the production, utilization and mechanisms of action in relation to healthpromoting/disease-preventing effects of prebiotics and prebiotic-like fiber consumption, covering all aspects of this emerging, multidisciplinary, dynamic field.

Guest Editors

Dr. Vassiliki Pletsa

Institute of Chemical Biology, National Hellenic Research Foundation, 48 Vas. Constaninou Ave., 11635 Athens, Greece

Dr. Adamantini Kyriacou

Department of Dietetics and Nutritional Science, Harokopio University of Athens, 70 Eleutheriou Venizelou Str., 17671 Kallithea, Greece

Deadline for manuscript submissions

closed (31 December 2021)



Molecules

an Open Access Journal by MDPI

Impact Factor 4.6 CiteScore 8.6 Indexed in PubMed



mdpi.com/si/88649

Molecules Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 molecules@mdpi.com

mdpi.com/journal/

molecules





Molecules

an Open Access Journal by MDPI

Impact Factor 4.6 CiteScore 8.6 Indexed in PubMed



molecules



About the Journal

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.

Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Reaxys, CaPlus / SciFinder, MarinLit, AGRIS, and other databases.

Journal Rank:

JCR - Q2 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.1 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).