# **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)



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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

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