

Special Issue

Recent Advances in Biotechnology and Applied Microbiology

Message from the Guest Editors

The gut microbiome is increasingly recognized as a key regulator of metabolic health and immune function, with evidence linking microbial composition to chronic diseases like obesity, diabetes, and inflammation-related disorders. This has intensified interest in microbiome-targeted therapeutic strategies within biotechnology and applied microbiology. While probiotics—live microorganisms with health-promoting effects—have been traditionally explored for gut health, challenges such as viability and stability have sparked interest in postbiotics. Postbiotics, which include non-viable probiotics, microbial cell components, and bioactive fermentation metabolites, offer a next-generation alternative by functioning independently of bacterial viability. This Special Issue, titled “Recent Advances in Biotechnology and Applied Microbiology,” aims to present original research and reviews in the field. We welcome contributions focused on novel microbial products, functional characterization of postbiotics, host–microbe interactions, and microbiome engineering for therapeutic applications.

Guest Editors

Dr. Ranjith Kumar Manoharan

Research and Development Center, Bereum Co., Ltd., Wonju 26361, Republic of Korea

Dr. Sathiyaraj Srinivasan

Department of Bio & Environmental Technology, Division of Environmental & Life Science, College of Natural Science, Seoul Women's University, Seoul 139774, Republic of Korea

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Editor-in-Chief

Prof. Dr. Anthony Guiseppi-Elie

Department of Biomedical Engineering, Texas A&M University, College Station, TX 77843, USA

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