

Special Issue

Biological Control of Plant Diseases by Beneficial Microbes

Message from the Guest Editor

In recent years, agriculture has faced significant challenges due to plant diseases, both in crops and post-harvest stages. Plant pathogens, such as fungi, bacteria, and viruses, can lead to substantial yield losses and poor-quality produce. These diseases are further exacerbated by over-reliance on chemical pesticides, which harm the environment, disrupt ecosystems, and contribute to the development of pesticide-resistant pathogens. Microbial agents act through both direct and indirect mechanisms. Directly, they produce antifungal or antibacterial compounds that directly kill or inhibit the growth of pathogens. Indirectly, they can stimulate plant immune responses, enhance nutrient availability, or compete for space and resources, thus reducing pathogen colonization. However, continued research and technological advancements are essential to overcome these obstacles and integrate microbial biocontrol into modern agricultural practices. This Special Issue will focus on the biological control of plant diseases, especially microbial agents. All types of articles, such as original research, opinions, and reviews, are welcome.

Guest Editor

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Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. *Agriculture* is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

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