

Special Issue

Gut Microbiome and Health of Poultry

Message from the Guest Editor

The gut microbiome, a core component of gut health, is critical to poultry health and performance, impacting growth, immunity, and disease resistance. As consumer demands for sustainable and high-quality poultry products increase, understanding microbiome interventions has become essential. Research suggests that modulating the microbiome through bioactive substances can enhance poultry health and mitigate the effects of pathogenic and environmental stressors.

This Special Issue aims to explore cutting-edge research on microbiome interventions in poultry, focusing on nutritional interventions, host–pathogen dynamics, environmental microbiomics, next-generation sequencing (NGS) technologies for rapid microbiome profiling, and innovative diagnostic tools to address poultry enteric diseases and strategies to promote microbiome resilience.

We invite a diverse array of submissions, including original research, reviews, and opinion pieces, that deepen our understanding of the microbiome's role in poultry health. Interdisciplinary studies that explore the impact of poultry management practices, animal welfare, and sustainability on the microbiome are particularly 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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