

Special Issue

Intestinal Health and Immunomodulation in Swine

Message from the Guest Editors

Intestinal health is a crucial topic in farm animal production due to the rising incidence and mortality from intestinal diseases, particularly in swine. Gut health is not only a matter of animal well-being but also represents significant economic losses for farmers and the swine industry. The sensitivity of a pig's gut means its functionality can be compromised by feed contaminants such as bacteria, mycotoxins, heavy metals, pesticides, and other xenobiotics. Common toxic effects in pigs include diarrhea, vomiting, reduced appetite, and weight loss. However, some agents can elicit an immune response without visible symptoms, and long-term exposure to low doses of these contaminants can adversely affect health. Equally important is investigating the beneficial effects of certain bioactive compounds on maintaining intestinal health. This Special Issue focuses on intestinal health, examining the factors and mechanisms that can damage the intestinal epithelium and trigger immune responses. Our goal is to explore new ways to diagnose, prevent, and treat intestinal-related diseases, thereby enhancing the health status of pigs and supporting the economy.

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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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