





an Open Access Journal by MDPI

The Important Role of Gut Microbiota Modulation through Animal Nutrition on Health, Production and Welfare

Guest Editors:

Dr. Mihaela Saracila

National Research and Development Institute for Animal Biology and Nutrition Baloteşti, 077015 Ilfov, Romania

Dr. Arabela Elena Untea

Feed and Food Quality Department, National Research and Development Institute for Biology and Animal Nutrition, Calea Bucuresti, No. 1, 077015 Balotesti, Romania

Dr. Petru Alexandru Vlaicu

National Research and Development Institute for Animal Biology and Nutrition, Balotesti, Romania

Deadline for manuscript submissions:

closed (15 December 2023)

Message from the Guest Editors

A balanced gut microbiota is crucial for the host's health. The digestive tract does not only constitute the protective intestinal barrier, but also has the function of absorbing nutrients from feed, which has the strongest influence on animal health, welfare, and products. Given that the diet has a critical role in modifying the microbiome, therefore, nutritional strategies may be among the effective solutions to counteract intestinal damage caused by oxidative stress and other factors. Thus, due to the antioxidant, antibacterial, and anti-inflammatory effects of some dietary bioactive compounds, such as polyphenols, prebiotics, and fatty acids, they can influence microbial populations, restoring the balance of intestinal microflora. Therefore, the intestinal microbial composition. mechanism of action, and their effects in animals will be investigated to provide advances in research into newly discovered nutrient sources with health benefits

The fields relevant to this Special Issue include, but are not limited to, agriculture, animal nutrition, and biotechnology. This Special Issue will comprise original research and reviews on the abovementioned research fields.











an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Les Copeland

Sydney Institute of Agriculture, School of Life and Environmental Sciences, The University of Sydney, Sydney, NSW 2006, Australia

Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, crossdisciplinary and scholarly open access journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. Agriculture is published in an open access format – research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the public have unlimited and free access to the content as soon as it is published.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubAg, AGRIS, RePEc, and other databases.

Journal Rank: JCR - Q1 (Agronomy) / CiteScore - Q1 (Plant Science)

Contact Us