

Special Issue

Dietary and Animal Gut Microbiota

Message from the Guest Editor

The gut microbiota is crucial in animal health and performance, interacting closely with dietary components. Recent research has highlighted how one's diet shapes the gut microbiota, affecting immune function, nutrient absorption, and overall health. However, the complex interactions between diet and the gut microbiota remain poorly understood, especially across animal species and production systems. This Special Issue focuses on the relationship between diet and the gut microbiota in animals (e.g., pigs, ruminants, poultry, or pets), examining how these interactions influence health, growth, and disease resistance. The scope of this Special Issue includes, but is not limited to, the following topics: (1) Dietary modulation of the gut microbiota; (2) The role of the gut microbiota in nutrient metabolism; (3) The gut microbiota and immune function; (4) Comparative studies across species; and (5) Technological innovations in microbiota analysis.

Guest Editor

Dr. Yu Pi

Institute of Feed Research, Chinese Academy of Agricultural Sciences, Beijing 100081, China

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MDPI, Grosspeteranlage 5

4052 Basel, Switzerland

Tel: +41 61 683 77 34

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Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

Editor-in-Chief

Dr. Nico Jehmlich

Department of Molecular Toxicology, UFZ-Helmholtz Centre for Environmental Research, 04318 Leipzig, Germany

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