

Special Issue

Advances in Pig Microbiome: Gut Influences and Beyond

Message from the Guest Editors

Research on the gut microbiome has emerged as a frontier hotspot in the interdisciplinary field of agricultural science and biomedical science. As a globally important economic animal and human disease model, the porcine gut microbiota not only directly impacts host health, production performance, and alternatives to in-feed antibiotics, but also provides unique perspectives for understanding host–microbe interaction mechanisms. Recent breakthroughs in metagenomics, metabolomics, culturomics, and other technologies have significantly advanced the isolation and functional characterization of intestinal microbial strains in pigs.

Gut microbiota plays a vital role in shaping porcine phenotypic traits. Deciphering the porcine gut microbiome will deepen our understanding of the mechanisms of host–microbe interactions. This Special Issue aims to compile research findings on porcine gut microbiome and its impacts on intestinal development, health, and even systemic physiology, while exploring its application potential in efficient, healthy, and environmentally sustainable animal husbandry practices.

Guest Editors

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Message from the Editor-in-Chief

Animals is an on-line open access journal that was first published in 2011. *Animals* adheres to rigorous peerreview and editorial processes and publishes only high quality manuscripts that address important issues in the many varied disciplines that involve animals, with a focus on animal science, animal welfare and animal ethics. *Animals* is covered in the Science Citation Index Expanded (SCIE) in Web of Science, with the latest Impact Factor: 2.7 (2024, ranks 15/86 (Q1) in 'Agriculture, Dairy & Animal Science'; 21/170 (Q1) in 'Veterinary Sciences'), 5-Year Impact Factor: 3.2.

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