

Special Issue

Microbiome Genomics in Livestock Production

Message from the Guest Editors

The advent of 'omics technologies had revolutionized the study of complex interactions between the host and its microbiome (bacteria, archaea, fungi, protozoa, and viruses) and the role of the microbiome in animal health, disease and productivity. A field that was dominated by 16S rDNA amplicon sequencing has progressed into whole genome sequencing of environments, metagenome wide association studies (MWAS), genome wide association studies (GWAS) of interplay between host genetic variation and its microbiome to meta transcriptomics. Microbial genomics in livestock animals is still in its infancy but, recent publication of several ground-breaking studies describing interaction of host genomics with gut microbiomes, genomics of drug resistance, impact of microbe-pathogen interactions, establishment and characterization of commensal viromes in many livestock species and genomics approaches to study phage therapy etc. proves that microbial genomics has become a subject of immense interest in livestock species.

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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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