Special Issue

Advancements and Perspectives in Molecular Detection and Analysis of *Leptospira* spp. in Animals

Message from the Guest Editor

In recent years, molecular techniques have revolutionized the detection and analysis of Leptospira spp., offering rapid, sensitive, and specific alternatives for use in diagnosis and epidemiological surveillance. Advances in polymerase chain reaction (PCR)-based assays, quantitative real-time PCR, loop-mediated isothermal amplification (LAMP), and next-generation sequencing (NGS) have significantly enhanced our ability to detect, differentiate, and study the genetic diversity of Leptospira strains. Moreover, the integration of molecular tools into bioinformatics and genomics has deepened our understanding of pathogen evolution, virulence factors, and host–pathogen interactions. This Special Issue will highlight recent advancements and emerging perspectives in the molecular detection and analysis of Leptospira spp. in animals, emphasizing their role in improving disease diagnosis, monitoring, and control strategies, which are essential in both veterinary and public health.

Guest Editor

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"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.

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