

Special Issue

Advances in Molecular Assays for the Detection and Quantification of Pathogens

Message from the Guest Editors

Molecular diagnostic methods based on the amplification of nucleic acids have now become gold standard methods for the detection of numerous pathogens, including viruses and bacteria but also parasites and other microorganisms. Many of these methods allow not only establishing the presence of the pathogen nucleic acid in the analyzed material but also their enumeration. This quantification becomes essential in data interpretation and can significantly contribute to the development of risk analysis models. The utilization of modern methods that allow precise quantification (e.g., dPCR) or higher levels of multiplexing (e.g., suspension arrays) together with the various modifications of qPCR represent real advances in the detection and quantification of pathogens. The topic aims at collecting a series of original manuscripts focusing on aspects linked to the detection and quantification of pathogens using molecular methods. New as well as old approaches – though coupled with new rigorous and significant improvements – will be considered for publication.

Guest Editors

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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.

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