



CRISPR-Based Diagnostics for Detection of Microorganisms and Beyond

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Message from the Guest Editor

Dear Colleagues,

Unlike CRISPR Cas9, Cas12 and Cas13 possess trans-cleavage activities against single-stranded nucleic acids, the activities of which have been employed to develop the next-generation CRISPR diagnostic (CRISPR-Dx) systems. So far, dozens of CRISPR-Dx systems have been successfully created, most of which are used in the detection of infectious diseases, non-infectious diseases, SNPs and non-nucleic acid targets. Although CRISPR-Dx technologies have shown merits in accuracy, sensitivity, rapidness and portability, there is still a lot of room for improvement in the detection of microorganisms.

As the Guest Editor of this Special Issue, I invite you to submit research articles, review articles, and short communications related to CRISPR-based technologies for the detection of microorganisms and beyond.

Keywords: CRISPR; CRISPR Diagnostics; Cas; microorganisms; next-generation diagnostics; molecular diagnostics; pathogen detection; DNA detection; RNA detection; amplification-free diagnostics; non-nucleic acid detection





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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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