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A real-time polymerase chain reaction (Real-Time PCR), also known as quantitative polymerase chain reaction (qPCR), is a laboratory technique of molecular biology based on the polymerase chain reaction (PCR). Conventional PCR is a powerful technique that allows exponential amplification of DNA sequences. After amplification, however, gel electrophoresis is used to analyse the amplified PCR products and this makes conventional PCR time consuming; since the reaction must finish before proceeding with the post-PCR analysis. Real Time PCR overcomes this problem. The term "real time" denotes that it can monitor the progress of the amplification when the process is going on in contrast to the conventional PCR method where analysis is possible only after the process is completed. Real time quantitative PCR (qPCR) technology has revolutionized almost all areas of microbiology, including clinical microbiology, food microbiology, industrial microbiology, environmental microbiology, and microbial biotechnology. Various modifications and improvements have enhanced the overall performance of this highly versatile technology and the qPCR instrumentation. Real time quantitative PCR (qPCR) technology has revolutionized almost all areas of microbiology, including clinical microbiology, food microbiology, industrial microbiology, environmental microbiology, and microbial biotech... Renowned scholars cover the application of qPCR technology in various areas of applied microbiology and comment on future trends. The real-time quantitative polymerase chain reaction (qPCR) is a robust and sensitive molecular technique to quantify phylogenetic and key functional genes of microbial populations in various natural and engineered environmental ecosystems under varying physical and chemical environmental conditions. The generated quantitative qPCR data can be used to relate variation in abundance of specific microbial groups, species, family or functional gene of interest and levels of gene expression in comparison with the change in environmental factors and or system processes. In this review, several appli

Real-time PCR is an extremely important technology, useful not only in food analysis, but also in gene expression analysis and many other applications in which the goal is not only to ask "what DNA is present" but also "how much". The Bio-Rad GMO Investigator kit is a popular tool for demonstrating PCR in the classroom. In microbiology labs, real-time PCR can be used to detect and quantitate various microbial contaminants in environmental samples (Mackay, 2004). Optimizing a Real-Time Quantitative PCR Assay (qPCR) Since real-time quantitation is based on the relationship between initial template amount and the CT value obtained during amplification, an optimal qPCR assay is absolutely essential for accurate and reproducible quantitation of your particular sample. The real-time quantitative polymerase chain reaction (qPCR) is a robust and sensitive molecular technique to quantify phylogenetic and key functional genes of microbial populations in various natural and engineered environmental ecosystems under varying physical and chemical environmental conditions. The generated quantitative qPCR data can be used to relate variation in abundance of specific microbial groups, species, family or functional gene of interest and levels of gene expression in comparison with the change in environmental factors and or system processes. In this review, several appli