

Quantitative Real-time PCR in Applied Microbiology



Edited by: **Martin Filion** (*Dept. Biology, Université de Moncton, Canada*)
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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 and strategies currently available are more sensitive, faster and affordable than ever before.

Written by experts in the field and aimed specifically at microbiologists, this volume describes and explains the most important aspects of current qPCR strategies, instrumentation and software. Renowned authors cover the application of qPCR technology in various areas of applied microbiology and comment on future trends. Topics covered include instrumentation, fluorescent chemistries, quantification strategies, data analysis software, environmental microbiology, water microbiology, food microbiology, gene expression studies, validation of microbial microarray data and future trends in qPCR technology.

The editor and authors have produced an outstanding book that will be invaluable for all microbiologists. A recommended book for all microbiology laboratories.

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