



Advances in microbial food safety: 10. Second-generation polymerase chain reaction (PCR) and DNA microarrays for in vitro and in situ study of foodborne ... in Food Science, Technology and Nutrition)

K. Rantsiou, L. Cocolin

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Since the invention of the polymerase chain reaction (PCR) in the 1980s, applied molecular biology has progressed enormously. Following technological advancements, PCR analysis has become quantitative rather than qualitative. Quantitative PCR (qPCR) revolutionized molecular approaches to food safety, due to the ability to quantify specific pathogens in food. New methods for studying the transcription process, such as microarrays, can be used to investigate the behavior of pathogens in the food environment. Indeed, the effects of food-related conditions on gene expression in pathogenic microorganisms have already been demonstrated.

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