



## Molecular Detection of Foodborne Pathogens

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While the vast majority of our food supplies are nutritious and safe, foodborne pathogen-related illness still affects millions of people each year. Large outbreaks of foodborne diseases — such as the recent salmonella outbreak linked to various peanut butter products — continue to be reported with alarming frequency.

### All-Encompassing Guide to Detection Techniques

One of the most effective ways to control and prevent human foodborne infections is to implement a pathogen surveillance system. Addressing the biology, epidemiology, and pathogenesis of more than 60 microorganisms, **Molecular Detection of Foodborne Pathogens** demonstrates how to implement a surveillance system that uses state-of-the-art molecular techniques to quickly detect and identify bacterial, fungal, viral, and parasitic pathogens concerned.

#### Included in each chapter:

- Concise review of the selected pathogen in respect to its biology, epidemiology, and pathogenesis
- Summary of molecular detection methods available
- Description of clinical/food sample collection and preparation procedures
- Selection of robust, effective, step-by-step detection protocols
- Discussion of the current challenges and ongoing research needs to further extend utility and performance of molecular diagnostic methods

With proven, ready-to-use protocols (including commercial kits), this globally pertinent resource demonstrates how speedy and effective detection methods can lead to more lives saved and a consistently safe, quality, and trustworthy food supply.

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