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Foodborne Intoxications and Toxicoinfections—Major Pathogens and Challenges

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Message from the Guest Editors

Microbial organisms producing toxins encountered in food are a major threat to human health and lead to substantial economic losses. While toxins produced by organisms such as Staphylococcus, Bacillus and Clostridium have been the focus of scientific research for decades, major questions remain unanswered. Major advances in whole genome sequencing have led to paradigm shifts and have amongst others initiated a collapse of traditional taxonomy-driven risk assessment in the Bacillus cereus group. While e.g. Bacillus thuringiensis and Clostridium difficile have been discussed as potential causative organisms in outbreaks, species traditionally exclusively associated with high toxicity such as Bacillus cytotoxicus have been shown to exhibit strong strain-specific variation in toxin production. The food matrix itself has a strong impact on the formation and stability of toxins. The lack of accurate and robust high-throughput detection and characterization methods as well as the broad variety of food matrices has limited the data available to date—a situation that is further exacerbated by wide-spread underreporting.













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Message from the Editor-in-Chief

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