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Detection and Control of Food-Borne Pathogens

Guest Editors:

Prof. Antonello Paparella

Department of Bioscience and
Technology for Food, Agriculture
and Environment, University of
Teramo, Via Balzarini 1, 64100
Teramo, Italy

Dr. Francesca Maggio

Department of Bioscience and
Technology for Food, Agriculture
and Environment, University of
Teramo, Via Balzarini 1, 64100
Teramo, Italy

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Message from the Guest Editors

Dear Colleagues,

Albeit the progress achieved in food preservation, significant outbreaks due to food-borne pathogens still occur worldwide. On one side, food safety as a public health challenge is correlated with market globalization and an increasing shift from stable foods to fresh convenience foods with extended durability. On the other side, the extensive application of whole-genome sequencing in food control has improved the detection of pathogens, advancing our knowledge of microbial diversity and genome biology. The increasing amount of genomic data, produced both in the research domain and in food control, offers the opportunity to develop food safety strategies based on precision microbiology. Thus, by focusing food preservation on specific microbial targets, future foods are going to benefit from higher food safety standards, with the minimum impact on food quality and price. In this respect, a significant role is going to be played by control methods based on minimal processing, and especially by strategies based on the use of natural preservatives and microbial cultures, compatible with the concept of clean labels.



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Special Issue



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Editor-in-Chief

Prof. Dr. Arun K. Bhunia

1. Department of Food Science,
Purdue University, West
Lafayette, IN, USA

2. Department of Comparative
Pathobiology (Courtesy), Purdue
University, West Lafayette, IN,
USA

Message from the Editor-in-Chief

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Contact Us

Foods Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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