Special Issue

Foodborne Pathogens: Infections and Pathogenesis

Message from the Guest Editors

Foodborne microorganisms have a major effect on food safety and cause a great number of human infectious diseases worldwide, with a significant impact on public health and the economy. Currently, the emergence of multidrug-resistant zoonotic bacteria associated with consumption of contaminated animal products is a great concern for public health. This Special Issue aims to gather up-to-date research on the infection and pathogenesis of foodborne pathogens, and will cover the following topics:

- Foodborne zoonotic bacterial pathogens
- Molecular and cellular mechanisms of infection
- Virulence factors and their regulation in the host and in the environment
- Production of toxins in the outcome of foodborne infections
- Pathogenicity models
- Host–pathogen interaction
- The role of the immune system in the disease process
- The role of microbiota in the disease process
- Biofilm production and the outcome of foodborne infections
- Antimicrobial resistance, including novel mechanisms
- Foodborne parasites
- Viral foodborne agents
- Food safety: Control of foodborne pathogens

Guest Editors

Dr. Mónica Oleastro

Department of Infectious Diseases, National Institute of Health Dr Ricardo Jorge, 1649-016 Lisbon, Portugal

Dr. Ana Botelho

National Institute for Agrarian and Veterinary Research, Oeiras, Portugal

Deadline for manuscript submissions

closed (22 May 2023)

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Microorganisms
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
microorganisms@mdpi.com

mdpi.com/journal/microorganisms

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About the Journal

Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

Editor-in-Chief

Dr. Nico Jehmlich
Department of Molecular Toxicology, UFZ-Helmholtz Centre for Environmental Research, 04318 Leipzig, Germany

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.2 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2025).

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