

Special Issue

Infections, Immune Mechanisms and Host-Pathogen Interactions

Message from the Guest Editor

There are a number of ways in which pathogens have evolved to specifically evade detection and clearance by the host immune system. Mechanisms of evasion often evolve over time under circumstances of recurrent host exposure leading to pathogenic adaptations. These microbial survival strategies can opportunistically change a commensal bacterium into an invasive pathogen or allow viral persistence and dissemination. The approach used by a microbe can affect the severity and progression of an infection by altering pathogen virulence, interfere with the ability to establish memory responses to prevent subsequent infections or change a pathogen's transmissibility.

The purpose of this Special Issue is to bring together a collection of research articles that provide the newest insight into mechanisms of immune evasion and manipulation across viral, parasitic and bacterial species that infect human hosts. Of particular interest are articles highlighting mechanisms in neglected or understudied diseases, including Lassa Fever Virus, Giardia, Cryptosporidium, Schistosomiasis, dengue, chikungunya, Mycobacterium ulcerans, etc.

Guest Editor

Dr. Cristina Tato

Chan Zuckerberg Biohub—San Francisco, San Francisco, CA 94158, USA

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

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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).