Special Issue

Helicobacter pylori Infection: Detection and Novel Treatment

Message from the Guest Editor

Helicobacter pylori has long been recognized as a formidable player in the realm of gastrointestinal health, significantly impacting the global burden of digestive and various extragastric diseases. The complexity of H. pylori infection necessitates continuous exploration and innovation in diagnostic techniques and treatment modalities.In this Special Issue, we would like to collect contributions that highlight groundbreaking research aiming to not only enhance our ability to accurately detect the bacterium in different clinical contexts, but also pioneer innovative therapeutic approaches designed to address antibiotic resistance and optimize patient outcomes. From long-established diagnostic methods such as serology and endoscopy to cutting-edge technologies such as next-generation sequencing, this Issue offers a novel perspective on their evolving role in precision medicine and personalized treatment plans. Furthermore, alternative therapies like bacteriophages, probiotics, plant compounds, vaccines, and nanotechnology show promise in preventing and treating H. pylori-related diseases.

Guest Editor

Dr. Evangelos Kazakos

Department of Internal Medicine, Second Medical Clinic, Ippokration Hospital, Aristotle University of Thessaloniki, 54642 Thessaloniki, Greece

Deadline for manuscript submissions

closed (31 July 2025)

Microorganisms

an Open Access Journal by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed

mdpi.com/si/196010

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

mdpi.com/journal/microorganisms

Microorganisms

an Open Access Journal by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed

mdpi.com/journal/microorganisms

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

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, PubAg, CAPlus / SciFinder, AGRIS, and other databases.

Journal Rank:

JCR - Q2 (Microbiology) / CiteScore - Q1 (Microbiology (medical))

Rapid Publication:

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).

MDPI