

Special Issue

Invasive Bacterial Diseases: Current State, Challenges, and Treatments

Message from the Guest Editors

Invasive bacterial diseases (IBD) are one of the major causes of morbidity and mortality among people of different ages throughout the world. They often lead to life-threatening conditions such as sepsis, pneumonia, GBS in infants and pregnant women, and meningitis. The spectrum of causative agents includes streptococci (Group A and B), Hemophilus influenzae, Neisseria meningitidis, Staphylococcus aureus, Klebsiella pneumoniae, Escherichia coli, etc. These pathogens are evolving genetically to become more virulent as well as acquiring multidrug-resistant phenotypes, making them difficult to treat without vaccines. Despite the current development in a multi-omics-based understanding, there are many caveats in the treatment of IBD, such as initial diagnosis, selection of proper antibiotic regime, biofilm formation and co-infection with multiple pathogens. In this Special Issue, we aim to collect and publish original research articles and reviews that include the diagnosis, epidemiology, and functional and genomic characteristics of these bacterial pathogens in the IBD and will include but are not limited to their pathogenicity, multidrug-resistance, and genetic evolution.

Guest Editors

Dr. Amit Ranjan

Center for Infection and Immunity, Columbia University, New York, NY, USA

Dr. Madhavi Annamanedi

Department of Microbiology, Immunology and Cell Biology, School of Medicine, West Virginia University, Morgantown, WV 26506-9600, USA

Deadline for manuscript submissions

closed (31 July 2023)



Tropical Medicine and Infectious Disease

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.0
Indexed in PubMed



mdpi.com/si/159063

*Tropical Medicine and
Infectious Disease*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
tropicalmed@mdpi.com

[mdpi.com/journal/
tropicalmed](https://mdpi.com/journal/tropicalmed)





Tropical Medicine and Infectious Disease

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.0
Indexed in PubMed



[mdpi.com/journal/
tropicalmed](https://mdpi.com/journal/tropicalmed)



About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. John Frean

Pathologist, Parasitology Reference Laboratory, Centre for Emerging Zoonotic and Parasitic Diseases, National Institute for Communicable Diseases, University of the Witwatersrand, Johannesburg 2192, South Africa

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, Informit, and other databases.

Journal Rank:

JCR - Q1 (Tropical Medicine) / CiteScore - Q1 (Public Health, Environmental and Occupational Health)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 22.2 days after submission; acceptance to publication is undertaken in 3.8 days (median values for papers published in this journal in the second half of 2025).