

Special Issue

Antimicrobial Treatment and Management of Central Nervous System Infections

Message from the Guest Editors

The central nervous system (CNS) might be considered a sanctuary for infections. Transport of fluid and solutes is tightly controlled within the CNS, as the entry of drugs into the cerebrospinal fluid (CSF) is governed by molecular size, lipophilicity, plasma protein binding and their affinity to transport systems at the blood–brain barrier (BBB). In the literature, only a few papers are available regarding therapeutic regimens for hospital-acquired (HA) CNS infections, especially in terms of requiring antibiotics combinations or therapy duration. In the absence of updated guidelines, there is little experience in the use of novel antibiotics in difficult-to-treat pathogens which are increasingly responsible for nosocomial infections in Neurosurgery Departments. This Special Issue seeks manuscript submissions that deepen our understanding of the treatment and management of CNS infections and broaden our knowledge in this challenging field, in particular regarding HA Infections. Submissions regarding pharmacokinetic studies of novel antibiotics in HA CNS infections are especially encouraged.

Guest Editors

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Deadline for manuscript submissions

closed (15 May 2025)



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About the Journal

Message from the Editor-in-Chief

There are very few fields that attract as much attention as scientific endeavor related to antibiotic discovery, use and preservation. The public, patients, scientists, clinicians, policy-makers, NGOs, governments, and supra-governmental organizations are all focusing intensively on it: all are concerned that we use our existing agents more effectively, and develop and evaluate new interventions in time to face emerging challenges for the benefit of present and future generations. We need every discipline to contribute and collaborate: molecular, microbiological, clinical, epidemiological, geographic, economic, social scientific and policy disciplines are all key. *Antibiotics* is a nimble, inclusive and rigorous indexed journal as an enabling platform for all who can contribute to solving the greatest broad concerns of the modern world.

Editor-in-Chief

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