

## Special Issue

# A Themed Issue in Honor of Dr. Lynne V. McFarland – *Clostridioides difficile* Infection and Impact of Antibiotics on the Intestinal Microbiome

### Message from the Guest Editors

This Special Issue explores complications of antibiotic use, focusing on advances in preventing and treating *Clostridioides difficile* (*C. difficile*). Although antibiotics revolutionized care, their widespread use has caused antibiotic-associated diarrhea, microbiome disruption, and resistance. Identifying *C. difficile* as a key driver of these issues highlighted its pathogenesis, broad presence, and the critical role of the gut microbiome.

We welcome submissions on:

- *C. difficile* prevention and diagnostics
- Treatments (new antibiotics, specific probiotic or live biotherapeutic products, fecal microbial therapy, bacteriophages)
- Epidemiology (healthcare, environmental, and animal reservoirs)
- Restoration of the disrupted intestinal microbiome

This issue also honors **Dr. Lynne V. McFarland**, whose landmark work on *C. difficile* transmission and microbiome-related therapies has profoundly influenced infection control and improved patient outcomes.

We warmly encourage you to contribute your latest research to this Special Issue.

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### Guest Editors

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### Deadline for manuscript submissions

30 June 2026



## Antibiotics

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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.

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### Editor-in-Chief

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