

Special Issue

Therapeutic Drug Monitoring for Antimicrobial Agents

Message from the Guest Editors

The rapid evolution of antimicrobial resistance, alongside the growing complexity of patient populations, has made precision dosing more important than ever. Therapeutic drug monitoring (TDM) is emerging as a key strategy to optimize antimicrobial exposure, improve clinical outcomes, and reduce toxicity, particularly in critically ill patients, pediatrics, immunocompromised hosts, and those receiving renal replacement therapies. This special issue aims to highlight cutting-edge research and clinical applications of TDM in the field of infectious diseases. We welcome original research articles, systematic reviews, methodological papers, and clinical perspectives addressing topics such as pharmacokinetic/pharmacodynamic integration, individualized dosing approaches, novel analytical techniques, and the implementation of TDM programs in routine practice. By bringing together multidisciplinary expertise, this collection will provide valuable insights into how TDM can strengthen antimicrobial stewardship and advance personalized medicine. We look forward to your valuable contributions to this important and timely issue.

Guest Editors

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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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