

Special Issue

Epidemiology, Virulence Factors and Antimicrobial Resistance in *Staphylococcus aureus*

Message from the Guest Editor

Methicillin-resistant *Staphylococcus aureus* (MRSA) is a leading cause of healthcare-associated (HA-MRSA) infections, and its prevalence is also increasing in community-associated (CA-MRSA) infections. In addition to this, the increased use of antimicrobial agents during the COVID-19 pandemic, due to the need to implement mechanical ventilation and the use of invasive medical devices in some patients affected by SARS-COV-2, may intensify the selective pressure on microorganisms present in hospital environments, impacting the emergence of multi-resistant *S. aureus*. Successful treatment remains challenging and requires the evaluation of both novel antimicrobials and adjunctive aspects of care and source control. This Special Issue seeks manuscript submissions that further our understanding of basic and clinical *S. aureus* research about epidemiology, transmission, genetic diversity, evolution, virulence factors, surveillance and treatment. **Keywords:** MRSA; *Staphylococcus aureus*; antimicrobial resistance; epidemiology; virulence factors; genomics

Guest Editor

Prof. Dr. Maria de Lourdes R.S. Cunha
Department of Chemical and Biological Sciences, Institute of Biosciences, São Paulo State University (Unesp), Botucatu, SP, Brazil

Deadline for manuscript submissions

closed (30 June 2024)



Antibiotics

an Open Access Journal
by MDPI

Impact Factor 4.3
CiteScore 7.3
Indexed in PubMed



mdpi.com/si/118092

Antibiotics
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
antibiotics@mdpi.com

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





Antibiotics

an Open Access Journal
by MDPI

Impact Factor 4.3
CiteScore 7.3
Indexed in PubMed



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



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

Prof. Dr. Nicholas Dixon
School of Chemistry and Molecular Bioscience, University of
Wollongong, Wollongong, NSW 2522, Australia

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

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

Journal Rank:

JCR - Q1 (Pharmacology and Pharmacy) / CiteScore - Q1
(General Pharmacology, Toxicology and Pharmaceutics)