# **Special Issue**

# Bacterial Antibiotic Resistance: From Mechanisms to Strategies for Restoring Antibiotic Efficacy

# Message from the Guest Editor

This Special Issue focuses on the urgent global challenge of bacterial antibiotic resistance, bringing together cutting-edge research on resistance mechanisms and innovative strategies to restore antibiotic efficacy. Contributions are invited that explore molecular, genetic, and structural determinants of resistance, as well as novel approaches to enhance drug uptake, inhibit efflux, or disrupt protective barriers. Studies on synergistic therapies, membrane-targeting agents, and diagnostics that guide effective treatment are also welcome. By highlighting interdisciplinary advances, this collection aims to deepen our understanding of bacterial defenses and inspire new interventions to combat resistant infections. We welcome original research articles, reviews, and perspectives that address these critical issues.

#### **Guest Editor**

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### Deadline for manuscript submissions

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## Message from the Editor-in-Chief

Life (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

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