

Special Issue

Drug Resistance: Mechanisms and New Strategies

Message from the Guest Editors

The ability of microbes to exist in large populations with constantly arising inevitable heterogeneity means that there is capacity for mutants resistant to drugs to reproduce during drug treatments, overcoming individuals undergoing drug treatment. These mutants can further spread throughout the population. In the face of such widespread antimicrobial resistance, new defense solutions are urgently needed. This Special Issue of *IJMS* will examine new drugs and new strategies for dealing with microbial threats. We welcome articles on new drugs, new ways of applying drugs and entirely new approaches, including bacteriophage and competing microbe therapies. Topics include, but are not limited to:

- Molecular mechanisms of antibiotic resistance and new therapeutic strategies;
- Drug-microbe interactions;
- Phage therapeutic strategies;
- Increasing and modifying host defenses;
- Host-microbe interactions;
- Probiotic approaches to drug resistant microbes.

Guest Editors

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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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