

Special Issue

Antimicrobial Resistance, Molecular Mechanisms and Fight Strategies

Message from the Guest Editor

The use of antibiotics has transformed the treatment of bacterial infections, saving and improving the health of many patients worldwide. However, the global emergence and spread of antimicrobial resistance (AMR) has been highlighted as one of the major global health challenges by different health organizations, compromising the ability to prevent and cure a wide range of infectious diseases. An integrated strategy that includes different interventions is required to fight AMR effectively. This includes the development of new molecules and the search for alternative microbe targets, molecular knowledge about mechanisms of resistance, faster diagnostic tests, monoclonal antibodies, microbiome interventions, use of bacteriophages, and new approaches to deliver small-molecule antibacterials into bacteria. Vaccines can also play a major role. Vaccination has the benefit of sustainability, can be used for decades without generating significant resistance, and can slow the spread of antibiotic resistance both directly and indirectly.

Guest Editor

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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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