Focus on Antimicrobial Resistance: Research and Recent Advances

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Message from the Guest Editors

Public health is worldwide threatened by the phenomenon of antimicrobial resistance (AMR), and in particular, by the emergence of new multi-resistant bacterial strains. The strategy to be adopted to prevent, reduce, and mitigate AMR should include a multi-sectoral approach, able to integrate preventive strategies (i.e., vaccines, diagnostic tools) with innovative and effective therapies (i.e., novel antibiotics, monoclonal antibodies, bacteriophages, microbiota).

To this aim, the Special Issue "Focus on Antimicrobial Resistance: research and recent advances" welcomes any contribution in the following research areas that tackle AMR from different perspectives:

- Potential targets for antimicrobial drug development;
- Novel antimicrobial leads;
- Next-generation vaccines against drug-resistant pathogens;
- Microbiota-based strategies to prevent infections;
- Diagnostic methods for molecular detection of resistance determinants;
- Use of surrogate organisms (i.e., Zebrafish, Caenorhabditis elegans, etc.) as simpler models to elucidate host–pathogen interactions;
- Omics technologies for the study of AMR;
- Computational analysis of host-pathogen interaction networks.

Special Issue

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Message from the Editor-in-Chief

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