

Special Issue

Microbiology and Antibiotic Resistance in Environment

Message from the Guest Editors

Antibiotic resistance is one of the most serious public health threats of our time. Modern life and the abuse, overuse, and misuse of antibiotics in humans and animals have resulted in the rapid emergence of antibiotic-resistant bacteria and antibiotic resistance genes in various environments. For this reason, a one health approach is essential to prevent, predict, and combat threats like antimicrobial resistance (AMR) and to address current health challenges in order to achieve better public health. The importance of this field justifies a Special Issue of *Applied Science* devoted to the latest progress in the detection and assessment of antibiotic resistance in the environment and in foods.

- New knowledge of phenotypic and genotypic assessments of antibiotic resistance in multiple environmental settings;
- Human health risk assessment regarding antibiotic resistance and its transfer in the environmental, foods, and pets;
- Advanced technologies for the study of AMR;
- Novel drug combinations designed to combat infections caused by multidrug-resistant pathogens.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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