Special Issue

Climate Change and Antibiotic Resistance

Message from the Guest Editor

There has been growing interest in the potential impacts of climate change and the antimicrobial resistance (AMR) of fungi and bacteria that are more sensitive to heat exposure due to changing climate variables, particularly the rising ambient temperature. These microorganisms can be found in natural and hospital environments and can cause opportunistic infections in at-risk groups such as the elderly, young, and immunocompromised individuals. Understanding their similarity in cell response to heat and antibiotics is crucial in preventing, detecting, and treating such infections.

Research is needed to understand how interactions between environmental microbes shape virulence and resistance on our warming planet. An increased understanding of the interrelatedness between climate change and microorganisms could help improve prevention, detection, and treatment efforts.

Because of unanswered questions, this Special Issue will bring together papers focusing on the impact of climate change on the interactions between environmental organisms and how this shapes virulence and resistance.

Guest Editor

Dr. Paola Di Carlo

Department of Health Promotion, Mother and Child Care, Internal Medicine and Medical Specialties, University of Palermo, 90127 Palermo, Italy

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Antibiotics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
antibiotics@mdpi.com

mdpi.com/journal/antibiotics

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About the Journal

Message from the Editor-in-Chief

There are very few fields that attract as much attention as scientific endeavor related to antibiotic discovery, use and preservation. The public, patients, scientists, clinicians, policy-makers, NGOs, governments, and supra-governmental organizations are all focusing intensively on it: all are concerned that we use our existing agents more effectively, and develop and evaluate new interventions in time to face emerging challenges for the benefit of present and future generations. We need every discipline to contribute and collaborate: molecular, microbiological, clinical, epidemiological, geographic, economic, social scientific and policy disciples are all key. *Antibiotics* is a nimble, inclusive and rigorous indexed journal as an enabling platform for all who can contribute to solving the greatest broad concerns of the modern world.

Editor-in-Chief

Prof. Dr. Nicholas Dixon
School of Chemistry and Molecular Bioscience, University of Wollongong, Wollongong, NSW 2522, Australia

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