



Antibiotic Resistance: Moving from Individual Health to One Health and Global Health

Guest Editor:

Dr. Francisco J. Roig

Facultad de Ciencias de la Salud,
Universidad San Jorge, Zaragoza,
Spain

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Message from the Guest Editor

Dear Colleagues,

Antibiotics have been used for a long time to treat infections. Currently, antibiotic resistance is a global public health problem that is increasing. What can cause this resistance? Various things, such as natural mutation rate, or the selection and promotion of resistant strains through inappropriate prescription or unnecessary use. Thus, we need a global strategy with interdisciplinary collaboration (medical personnel, veterinarians, researchers, etc.) for the care of the global health of people, animals, and the environment since human health and animal health are interdependent and linked to the ecosystems in which they coexist. This is known as the One Health concept. The One Health initiative studies the emergence, evolution and, spread of antibiotic-resistant microorganisms on a local and global scale as a significant risk factor for global health. In this Special Issue, we will share the latest advances in the knowledge of antibiotic resistance in relation to our globalized and interconnected world.

Keywords: antibiotic; resistance; evolution; One Health; bioproducts; animal health; human health





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Editor-in-Chief

Prof. Dr. Nicholas Dixon

School of Chemistry and
Molecular Bioscience, University
of Wollongong, Wollongong, NSW
2522, Australia

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.

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Antibiotics Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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