



Antimicrobial Resistance: A Global Challenge

Guest Editor:

Dr. Michela Sabbatucci

Department Infectious Diseases,
Italian National Institute of
Health, Rome, Italy

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Message from the Guest Editor

Dear Colleagues,

Antimicrobial resistance (AMR) has become a worldwide public health threat caused by inappropriate and massive consumption and disposal of antimicrobial drugs in the medicine, veterinary, zootechnical and agricultural fields.

Infectious diseases can be caused by multidrug-resistant microorganisms (MDRO) in hospitals, communities and livestock, threatening medical procedures or food production chains of both animal and plant origin.

As a global health challenge, an effective response to the AMR “silent pandemic” needs the One Health approach to reduce the risk for emerging zoonotic disease outbreaks as well as environmental spread of resistant pathogens and genes. This Special Issue will bring together scientific research studies and review papers focused on evidence-based interventions, sustainable use of antimicrobial treatments, monitoring strategies, tools, models, health determinants and estimates of the AMR burden in order to favor awareness and offer insights on how to address this critical issue for the ecosystem and human health.





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Prof. Dr. Felipe Fregni

1. Neuromodulation Center and
Center for Clinical Research
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Rehabilitation Hospital and
Massachusetts General Hospital,
Harvard Medical School, Boston,
MA 02114, USA
2. Department of Epidemiology,
Harvard T.H. Chan School of
Public Health, Boston, MA 02115,
USA

Message from the Editor-in-Chief

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