Special Issue

Horizontal Gene Transfer (HGT): Key to the Multi-Antibiotic Resistance (MAR) Crisis

Message from the Guest Editor

Recognizing the global crises of MAR and the growing promise of analytical techniques to elucidate the mechanisms underpinning HGT and interventions to overcome it, we present a new Special Issue, "Horizontal Gene Transfer (HGT): Key to the Multi-Antibiotic Resistance (MAR) Crisis". We welcome contributions on, but not limited to, the following topics:

- The origins and recruitment of specific antibiotic resistance and mobilization genes;
- The identification of functions for hypothetical genes that occupy 30+% of large MAR plasmids;
- Modeling which HGT 'superpower' (replication control, inter-cell transfer, intra-cell mobility) would be the best target to diminish MAR spread;
- Mobilomes of humans from isolated traditional peoples vs. modern urban dwellers;
- Longitudinal studies of mobilomes responding to and recovering from antibiotic exposure (or other stressor) in a full genomic context;
- Effects of traditional Chinese or Ayurvedic remedies (botanicals, metals, etc) on mobilomes in vitro, experimental animals, or humans.

Guest Editor

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Deadline for manuscript submissions

closed (31 July 2024)

Antibiotics

an Open Access Journal by MDPI

Impact Factor 4.6
CiteScore 8.7
Indexed in PubMed

mdpi.com/si/191009

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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
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