Antimicrobial Resistance in Gram-negative Bacteria

Message from the Guest Editor

Dear Colleagues,

Gram-negative bacteria possess an intrinsic resistance to many antimicrobials because of the bacterium's outer-membrane barrier, the presence of multidrug efflux transporters, and endogenous antimicrobial inactivation etc. Moreover, Gram-negative bacteria readily acquire resistance to antimicrobial agents via chromosomal mutations and lateral gene transfers. In order to overcome this problem, it is necessary to tackle the development of antibacterial agents, drug resistance inhibitors, anti-pathogenic factors and vaccines. Thus, this Special Issue features interdisciplinary studies that build our understanding of the underlying antimicrobial resistance in Gram-negative bacteria. It also covers studies on development of antibacterial agents and adjuvant against antimicrobial resistant Gram-negative bacteria.

Prof. Yuji Morita
Guest Editor
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.

Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High visibility:** Indexed in the Science Citation Index Expanded (SCIE - Web of Science), Scopus and other databases. Citations available in PubMed, full-text archived in PubMed Central

**CiteScore 2017** (Scopus): 2.88, which equals rank 6/68 (Q1) in the category ‘General Pharmacology, Toxicology and Pharmaceutics’, 61/266 (Q1) in 'Infectious Diseases', 32/109 (Q2) in 'Microbiology (medical)' and 143/402 (Q2) in 'Biochemistry'.

Contact Us

*Antibiotics*
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
Fax: +41 61 302 89 18
www.mdpi.com

mdpi.com/journal/antibiotics
antibiotics@mdpi.com
@antibioticsmdpi