



Antibiotic Transport in Gram-Negative Bacteria

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Message from the Guest Editor

Gram-negative bacteria have been classified from the WHO as the most critical priorities for the search of new anti-infectives. The pharmacological targets in Gram-negative bacteria are difficult to address. Though modern sequencing techniques have given access to innumerable potential new targets, the molecules identified with high-throughput screening campaigns are not able to be effective against bacteria **in vivo**. The singularity of Gram-negative species is a complex cell wall composed by an additional tick outer membrane with asymmetric composition. The outer membrane and its constituents (porins, specific transporters, and efflux pumps) are able to modulate the transport of molecules in and out, representing a complex filtering system for any molecule. This Special Issue seeks manuscript submissions that further our understanding of molecular transport and eventually accumulation in Gram-negative species, in terms of structures involved in their mechanism of functioning, as well as with methods to measure accumulations and predictive tools





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Editor-in-Chief

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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 disciplines 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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