Special Issue

Virulence Factors and Antibiotic Resistance of Enterobacterales: Third Edition

Message from the Guest Editors

This Special Issue is a continuation of our 2023 Special Issue "Virulence Factors and Antibiotic Resistance of Enterobacterales 2.0". This Special Issue invites researchers interested in Enterobacterales characterization concerning the presence of genes associated with virulence, and bacterial-biofilm-associated phenotypes. Although not directly involved in pathogenicity, the acquisition of multiple antibiotic resistances strongly supports the success of opportunistic Enterobacterales pathogens in invasion, survival, and spread, and markedly complicates the treatment of infections. Not only pathogens but also commensal bacteria, considered harmless and part of the normal microbiota, are exposed to selection pressure and can be a reservoir of mobile genetic elements carrying antibiotic resistance genes. Therefore, the occurrence of drug-resistant bacteria within a commensal population and the possibility to exchange genetic material through horizontal gene transfer may represent a major health concern.

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"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

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