



Epidemiology and Surveillance of Bacterial Infections and Antimicrobial Resistance

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Message from the Guest Editors

Bacterial pathogens, as one of the main groups of microorganisms, are involved in many infectious diseases. On the one hand, bacteria can spread among human beings various ways, such as via contact, the digestive tract, the respiratory tract, etc. On the other hand, bacterial infection can transfer between animals and humans, causing huge economic losses to human society and the livestock and poultry industries every year. To defend against bacterial infection, as early as the early 20th century, penicillin was first discovered, demonstrating good therapeutic effects in the clinical setting. In recent decades, an increasing number of antibiotics have been discovered by scientists and applied in many fields. However, the emergence of bacterial resistance has brought great difficulties to public health worldwide. Increasing attention has been paid to the characteristics and mechanisms of resistance in bacteria while conducting epidemiological surveillance of bacteria, with animal-derived, human-derived, food-derived, and environmental bacteria often being studied as a unified whole.





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Message from the Editor-in-Chief

The worldwide impact of infectious disease is incalculable. The consequences for human health in terms of morbidity and mortality are obvious and vast but, when infections of animals and plants are also taken into account, it is hard to imagine any other disease that has such a significant impact on our lives—on healthcare systems, on agriculture and on world economics. *Pathogens* is proud to continue to serve the international community by publishing high quality studies that further our understanding of infection and have meaningful consequences for disease intervention.

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