



Pathogenic Polymicrobial Infections, Biofilms, and Adaptive Drug Resistance

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Message from the Guest Editor

Traditionally, infectious diseases have been attributed to individual pathogens but recent progress in microbial whole-genome sequencing revealed the presence of polymicrobial communities. The colonization of multispecies communities with pathogenic bacteria can not only implicate disease progression but also complicate antimicrobial treatment and effectiveness.

Microorganisms that live in biofilms have the ability to cope with the host immune system and overcome antibiotic treatment due to adaptive behavior that can make them up to 1000-fold more resistant to antibiotics. Biofilm infections have been thought to play a major role in reducing therapeutic effectiveness of antimicrobial compounds. However, how pathogenic communities influence antimicrobial resistance and therapeutic outcomes is still poorly understood.

This Special Issue will focus on pathogenic polymicrobial infections, antimicrobial (adaptive) resistance within communities, and discuss potential treatment strategies. Welcome the submission of original research, review articles, or short communications that report on recent progress to further expand our knowledge of complex diseases.





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Editor-in-Chief

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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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