Special Issue

Bacterial Pathogens-Host Interface in Cystic Fibrosis

Message from the Guest Editor

Cystic Fibrosis (CF) is an autosomal recessive disorder caused by CFTR gene mutations, impairing chloride transport and causing thick mucus accumulation in lungs and other organs. This environment promotes chronic infections by pathogens and forms resilient polymicrobial communities through biofilm formation and virulence factor regulation, evading host immune responses, and leading to persistent inflammation and progressive lung damage.

Our research areas include bacterial virulence mechanisms enabling colonization and persistence; Host-pathogen interactions and immune evasion strategies; Microbial adaptation to the CF lung environment, and Innovative therapeutic approaches targeting pathogens or CFTR function

We welcome studies investigating:
Molecular mechanisms of bacterial attachment and invasion
Biofilm formation and antibiotic resistance
Host immune responses and their dysregulation
Interspecies microbial interactions
Novel antimicrobial strategies
CFTR-modulating therapies

Original research articles and reviews on these aspects of CF pathogenesis and treatment are invited. This topic aims to advance understanding of CF-related infections and accelerate therapeutic development.

Guest Editor

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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.

Editor-in-Chief

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