

Special Issue

Virulence Mechanisms of Uropathogenic Bacteria

Message from the Guest Editors

Urinary tract infections (UTIs) are considered a major public health concern across the globe due to the continual emergence of antibiotic-resistant uropathogens. Over the last two decades, researchers have sought to improve our understanding of the specific bacterial fitness, virulence mechanisms, and host susceptibilities important for urinary pathogenesis with an eye towards developing novel therapeutic strategies. For this Special Issue, we seek manuscripts examining the physiology of uropathogens in the urinary microenvironment. We are interested in manuscripts examining global transcriptomes/metabolomes of uropathogens isolated from infected mice or humans as well as manuscripts comparing WT and specific virulence gene knockout mutants side-by-side in mouse models of uncomplicated, ascending, or complicated UTIs. In addition to uropathogenic *Escherichia coli* (UPEC), uropathogens of interest include, but are not limited to, *Klebsiella pneumoniae*, *Proteus* spp., group B *Streptococcus* (GBS), methicillin-resistant *Staphylococcus aureus* (MRSA), *Enterococcus faecalis*, and *Pseudomonas aeruginosa*.

Guest Editors

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Deadline for manuscript submissions

closed (15 July 2024)



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About the Journal

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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