



## ***Pseudomonas aeruginosa* Toxins and Disease**

Guest Editor:

### **Assoc. Prof. Brant Wagener**

Department of Anesthesiology  
and Perioperative Medicine,  
University of Alabama at  
Birmingham, Birmingham, AL  
35294, USA

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### **Message from the Guest Editor**

*Pseudomonas aeruginosa* is a common cause of nosocomial pneumonia (among other sites of infection) in intensive care units and immunocompromised individuals. A recent working group indicated that pneumonia is not only a localized, acute disease, but can cause non-pulmonary end-organ dysfunction that leads to deleterious long-term health consequences for patients. Interestingly, many of these effects are mediated by the virulent toxins and avoidance methods possessed by the bacterium. These methods include, but are not limited to, the type III secretion system, flagellin, mucin production, and quorum sensing. Although we know much about how these toxins function, there is still much to learn about how the bacterium uses these methods to cause infection and disease.

This Special Issue will focus on how *Pseudomonas aeruginosa* can lead to virulent infection, maintain a balance between colonization and infection, lead to short- and long-term end-organ dysfunction, and how its virulent toxins and avoidance methods play a role in these processes.





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### Prof. Dr. Jay Fox

Department of Microbiology,  
University of Virginia,  
Charlottesville, VA, USA

## Message from the Editor-in-Chief

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*Toxins* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
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