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Pseudomonas aeruginosa Toxins and Disease

Guest Editor:

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Deadline for manuscript submissions:

closed (30 September 2021)

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 shortand long-term end-organ dysfunction, and how its virulent toxins and avoidance methods play a role in these processes.













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Message from the Editor-in-Chief

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