



***Legionella pneumophila*: A Microorganism with Thousand Faces, 2nd Edition**

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Deadline for manuscript
submissions:

31 August 2024

Message from the Guest Editor

Legionella pneumophila is naturally found in fresh water, where bacteria parasitize within protozoa. The pathogenesis of Legionnaires' disease is largely related to the ability of *L. pneumophila* to invade and grow within macrophages. In recent times, a prodigious number of bacterial virulence factors, which affect the growth of *L. pneumophila* in both macrophages and protozoa, have been recognized. While *L. pneumophila* replicates within environmental protozoa, its colonization and persistence within its natural environment are mediated by biofilm formation and colonization within multispecies microbial communities. There is now evidence that some legionellosis outbreaks are correlated with the presence of biofilms. Thus, preventing biofilm formation appears to be one of the optimal strategies available for reducing water system contamination. This Special Issue will focus on epidemiological data and experimental evidence, as well as possible mechanisms of *L. pneumophila* and host factors involved in causing Legionnaires' disease. Finally, it will review the known mechanisms of biofilm formation, as well as old and new anti-biofilm substances.





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Message from the Editor-in-Chief

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