



New Molecular Advances in *Legionella* Research

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Message from the Guest Editor

Dear Colleagues,

Recent molecular advances in *Legionella* research have unveiled intricate mechanisms underlying its pathogenesis and environmental persistence. Studies have elucidated the role of virulence factors, such as secretion systems and effector proteins, in facilitating host cell invasion and immune evasion. Furthermore, genomic studies have revealed the genetic diversity among *Legionella* strains and identified key genomic regions associated with virulence and adaptation to diverse environments. Advancements in molecular diagnostics, such as PCR-based assays targeting specific *Legionella* genes, have improved the detection and rapid identification of this pathogen in clinical and environmental samples. These molecular insights are crucial for developing targeted therapeutic interventions, designing effective control strategies, and improving public health surveillance efforts to combat *Legionella*-associated diseases effectively.

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Message from the Editor-in-Chief

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