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*Mini-review*

## Role of toll-like receptor 2 in immune response against *Pseudomonas aeruginosa* and its pathological characteristics

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*Pseudomonas aeruginosa* is an important opportunistic bacterium, which its resistant form can induce some complications in immunocompromised patients. The bacterium uses several mechanisms to overcome immune responses and makes a resistant form. Toll like receptors (TLRs) are the most well-known innate immune receptors that play key roles in the induction and stimulation of immune responses against bacteria. Accordingly, it has been hypothesised that *Pseudomonas aeruginosa* may cause significant interactions with the receptors to be resistance to immune responses and make persistence infection. Thus, the main aim of this review article is to discuss the roles played by toll like receptors in the induction of appropriate immune responses and also induction of the bacterium complications.

**Keywords:** Bacteria, Cytokine, Inflammation, Innate immunity, Resistance, Signalling pathways