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The Function of Toll-like receptor 2 in Infection and Inflammation

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Stellingen

behorend bij het proefschrift getiteld:

“The Function of Toll-like receptor 2 in Infection and Inflammation”

1. Tlr2 has broad functions in triggering innate immune responses, which makes it an attractive therapeutic target.
(This thesis, chapter 1)
2. Tlr2 plays an important role in controlling mycobacterial infection.
(This thesis, chapter 2 and chapter 4)
3. The function of Tlr2 and Myd88 in modulating the direction of neutrophils migration and the speed of macrophages migration upon tail wounding, as for the first time demonstrated in zebrafish larvae shows a novel function of toll-like receptors in tissue repair.
(This thesis, chapter 3)
4. *Mycobacterium avium* is persisting in macrophages that form granuloma-like clusters, but cause less lethality to zebrafish larvae than *Mycobacterium marinum*.
(This thesis, chapter 4)
5. The mechanisms by which TLR2 modulates host-pathogen interactions are just beginning to be understood.
6. TLR2 in host defense against *Mycobacterium tuberculosis*: to be or not to be — that is the question.
(Gopalakrishnan, A. and Salgame, P., Current opinion in immunology. 2016)
7. Zebrafish larvae are an ideal model to study the function of cell migration in innate immune responses.
8. Mathematic modelling is essential for fundamentally understanding the functions of the innate immune system.
9. The function of toll-like receptors in controlling system metabolism is still underestimated.
10. Science needs not only innovation but also inheritance.
11. Exploring science is like swimming in the ocean, everything is exciting but you can never experience it all.

Wanbin Hu, Leiden, 2021