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Multifaceted role of the complement system in health and disease: a focus on properdin

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Stellingen behorende bij het proefschrift

Multifaceted role of the complement system in health and disease

A focus on properdin

6 oktober 2022

1. The type of medium used in knockdown experiments should be carefully assessed and examined, especially when applied in primary cells. *(this thesis)*
2. The ability of myeloid cells to produce complement activator properdin and complement regulators factor H and FHL-1 implies a local balance in complement regulation and activation. *(this thesis)*
3. Properdin binding to a surface directs alternative pathway activation. *(this thesis)*
4. Serum factors keep circulating properdin in check. *(this thesis)*
5. Properdin secretion by dendritic cells guides T cell immunity in antigen-presenting cell-T cell interaction. *(this thesis)*
6. A better understanding of the local and systemic role of the complement system in organ-specific pathology would be instrumental for the design of complement-based therapy. (Adapted from Li et al. Mol Immunol. 2007 Sep; 44(16): 3866-74).
7. Developments in donor-organ preservation paves the way for targeted complement treatment pre-transplantation.
8. Complement-independent roles for various complement factors are emerging.
9. "The complement system is the most important part of your immune system that you have never heard of" (Philipp Dettmer. Immune. A journey into the mysterious system that keeps you alive, 2021. Chapter 12, p. 79).
Due to ignorance the importance of the complement system is often underestimated.
10. To improve creativity, we should allow boredom.
11. "Nothing in life is as important as you think it is when you are thinking about it" (Daniel Kahneman. Thinking, Fast and Slow, 2011. Chapter 38, p. 402).
Approach everything with an open mind and try not to focus only on what seems important at the moment.