

Beyond communication

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Propositions belonging to the dissertation:

Beyond communication: Membrane vesicle release during macrophage infection by common respiratory pathogens

Maastricht, 5 October 2017

Charlotte Volgers

1. The physiology of membrane vesicles can only be better understood with validated methods for isolation and characterization (*this dissertation*)
2. The release of membrane vesicles both by the host as well as by Gram-negative and -positive bacteria occurs early during culture. (*this dissertation*)
3. The context determines whether bacterial membrane vesicles trigger an immuno-stimulatory or -modulatory response. (*this dissertation*)
4. Therapeutic agents may lead to undesired side-effects when they induce bacterial stress responses and the release of pro-inflammatory membrane vesicles into the host-environment. (*this dissertation*)
5. It is almost impossible to follow and anticipate on a game of chess by only studying the moves of one party: the pathogenicity and virulence of bacteria are predominantly determined by their ability to overcome environmental challenges.
6. It is what bacteria do rather than what they are that commands attention since our interest centers in the host rather than in the parasite
Theobald Smith, M.D., ca. 1904
7. The existence of membrane vesicles requires to redefine the concept of 'a' cell
8. There is more signalling in a host than we signal
9. Success is not final, failure is not fatal: it is the courage to continue that counts
Winston Churchill
10. If you change the way you look at things, the things you look at change
Wayne Dyer