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Controlled human infection models as a tool for malaria and schistosomiasis vaccine research

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STELLINGEN BEHORENDE BIJ HET PROEFSCHRIFT

“Controlled human infection models as a tool for malaria and schistosomiasis vaccine research”

1. Malaria development further into liver stage will generate a better immune response due to longer exposure of a higher dose of antigens to the immune system. This is why late arresting genetically modified sporozoite vaccines are likely to generate a better immune response than radiation attenuated sporozoite vaccines. (this thesis)
2. Katayama syndrome can develop in the absence of Schistosoma eggs and is related to the development of adult Schistosoma worms. (this thesis)
3. Controlled human schistosomiasis infections can be performed safe and creates new opportunities for schistosomiasis vaccine research. (this thesis)
4. The use of historical data can improve the cumulative safety of controlled human infection models with consistent infection rates. (this thesis)
5. A higher dose of PfSPZ Vaccine can result in a lower vaccine efficacy. (S.A. Jongo, CID. 2020)
6. The Sm-p80-based vaccine, in addition to inducing adaptive immunity, will facilitate the continuation of natural immunity/resistance against schistosomes by retaining some non-pathogenic male worms. (Zhang, Ann N Y Acad Sci. 2018)
7. Mass drugs Administration alone is unlikely to interrupt Schistosoma transmission. Once mass treatment is suspended, the prevalence of human infection is likely to rebound to pre-control levels over a period of 25-30 years. (Gurarie, Parasit. Vectors. 2015)
8. Challenge studies may sometimes be ethically required. (Bamberg, Public Health Ethics. 2016)
9. Het dissecteren van muggen is als het bakken van pannenkoeken, de eerste mislukt altijd.
10. Ieder promotietraject heeft diepe dalen. Op deze momenten is het goed te realiseren dat “als het écht zwaar wordt, dan weet je dit zijn de laatste loodjes”. (M. Roestenberg, promotor)
11. Je komt een stap verder in het leven als je je bedenkt “ik heb het nog nooit gedaan, dus ik denk dat ik het wel kan”.
12. Voor zowel groot als klein, materieel en immaterieel geldt “alles van waarde is weerloos”. (Lucebert 1924-1994)

M.C.C. Langenberg