

PROPOSITIONS

belonging to the dissertation entitled:

Mapping MERS-CoV Immune Responses: A blueprint for rational vaccine design

1. CoV spike S1 domain is an ideal target for the development of diagnostics, therapeutics and vaccines. *(this thesis)*
2. The current known prevalence of MERS-CoV in humans is underestimated. *(this thesis)*
3. Dromedary camels can be a blessing and a curse for MERS-CoV. *(this thesis)*
4. Vaccinating camels could put an end to ongoing MERS-CoV outbreaks. *(this thesis)*
5. An on-demand 'plug-and-display' approach can provide a platform for the rapid generation of vaccines for emerging viruses. *(this thesis)*
6. Disease X: A Coronavirus? *(Cui J. et al. Nat Rev Microbiol 2019)*
7. Nanobodies are promising antiviral therapeutics for respiratory viruses. *(Laursen NS et al. Science 2018)*
8. Vaccines have transformed human health. Yet, guided primarily by empiricism for centuries. *(Wilson JT, Science 2019)*
9. Investing in preparedness and prevention is not only better than cure; it's cheaper. *(Ghebreyesus TA, Director-General of the WHO)*
10. A multisectoral 'one health approach' is required to address viral disease emergence. *(Belay ED et al. Emerg Infect Dis 2017)*
11. To be yourself in a world that is constantly trying to make you something else is the greatest accomplishment. *(Ralph Waldo Emerson)*

Nisreen Mamdouh Ahmed Okba

Rotterdam, 28 May 2020