Stellingen

behorende bij het proefschrift

Systems vaccinology
Molecular signatures of immunity to *Bordetella pertussis*

1. Mucosal immunity provides an important contribution in protection against pertussis

   This thesis

2. *Bordetella pertussis* outer membrane vesicles are a promising vaccine candidate.

   This thesis

3. Vaccine composition and route of administration determine the type of pertussis immunity.

   This thesis

4. Detailed insight into vaccine-induced immune responses by systems vaccinology provide an advantage for vaccine licensing.

   This thesis

5. Even though *Bordetella pertussis* is a strictly mucosal pathogen, mucosal immunity against pertussis is under-addressed.

   Live Attenuated B. pertussis as a Single-Dose Nasal Vaccine against Whooping Cough
   Mielcarek et al., PLoS Pathogens 2006

6. "The successful application of systems vaccinology requires a close trans-disciplinary collaboration between biologists and bioinformaticians."

   Systems vaccinology
   Pulendran et al., Immunity 2010

7. Robust or productive systemic immunity does not necessarily correlate with effective protection at site of pathogen entry.

Location, location, location: tissue-specific regulation of immune responses
Hu & Pasare, Journal of Leukocyte Biology 2013

8. "We are all conscious today that we are drowning in a sea of data and starving for knowledge."

Nobel laureate - Nature's gift to science
Sydney Brenner, 2002

9. "If you think well, you cook well."

Ferran Adrià

10. "The size of your dreams must always exceed your current capacity to achieve them."

Ellen Johnson Sirleaf

11. "Eat, drink and be merry for tomorrow may be your last day."

Unknown

12. Systems vaccinology strengthens when the bonds in a network are tight.