

Cover Page



Universiteit Leiden



The handle <http://hdl.handle.net/1887/35908> holds various files of this Leiden University dissertation

Author: Soema, Peter

Title: Formulation of influenza T cell peptides : in search of a universal influenza vaccine

Issue Date: 2015-10-20

Stellingen

behorende bij het proefschrift

Formulation of influenza T cell peptides: In search of a universal influenza vaccine

1. The feasibility of novel influenza vaccine concepts not only depends on immunological or clinical outcomes, but also depends on formulation and production methods, which are frequently overlooked.

This thesis, Chapter 2.

2. Criteria for evaluation of a universal influenza vaccine should include its ability to limit virus shedding and transmission, as well as disease severity (i.e. subclinical infection) in cases where sterilizing immunity is not achieved.

Li et al., Curr Opin Immunol. 2013;25(4):470-6.

3. The development of safe adjuvants that induce CD8+ T cell immunity and immunological memory is a major milestone and of key importance for the progression of modern subunit vaccine technology.

Foged et al., Eur J Pharm Sci. 2012;45(4):482-91.

4. The synergistic effect of virosomes as a delivery system and CpG as an immunostimulator make a potent combination to increase the immunogenicity of T cell peptides.

This thesis, Chapter 3.

5. The simple formulation process and its existing safety track record as a vaccine, combined with its innate adjuvant capability, make whole inactivated influenza vaccine an attractive adjuvant candidate.

This thesis, Chapter 4.

6. Vaccine adjuvants are defined by what they do, not what they are.

Brito and O'Hagan, J Control Release. 2014;190:563-79.

7. Design of experiments can be applied to evaluate and predict immunological responses, such as dendritic cell maturation, induced by liposomal vaccine formulations.

This thesis, Chapter 5.

8. Adjuvants are no longer magic, they're science.

Ian York, Mystery Rays from Outer Space, 2009.

9. Clearly, the development of the next generation of adjuvants would need to be led by formulation scientists working in tandem with immunologists, from which long term value might emerge.

O'Hagan and Fox, Vaccine. 2015;33 Suppl 2:B14-20.

10. Influenza vaccines formulated in Bioneedles are very thermostable, while retaining their immunogenicity.

This thesis, Chapter 7.

11. Open acces publiceren maakt de wetenschap toegankelijker, maar opent ook de poorten voor bijzonder vervelende "predatory publishers" die je mailbox belagen.

12. Het aantal reglementaire stellingen ligt naar schatting tussen 10^{43} en 10^{46} . Dit betreft echter wel stellingen op het schaakbord.

Chinchalkar, ICCA Journal, 1996.

13. Science is nothing but a series of questions that lead to more questions, which is just as well, or it wouldn't be much of a career path, would it?

Terry Pratchett