

University of Groningen

Cross-protection induced by influenza: from infection to vaccines

Dong, Wei

IMPORTANT NOTE: You are advised to consult the publisher's version (publisher's PDF) if you wish to cite from it. Please check the document version below.

Document Version

Publisher's PDF, also known as Version of record

Publication date:

2018

[Link to publication in University of Groningen/UMCG research database](#)

Citation for published version (APA):

Dong, W. (2018). *Cross-protection induced by influenza: from infection to vaccines*. University of Groningen.

Copyright

Other than for strictly personal use, it is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), unless the work is under an open content license (like Creative Commons).

The publication may also be distributed here under the terms of Article 25fa of the Dutch Copyright Act, indicated by the "Taverne" license. More information can be found on the University of Groningen website: <https://www.rug.nl/library/open-access/self-archiving-pure/taverne-amendment>.

Take-down policy

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

Downloaded from the University of Groningen/UMCG research database (Pure): <http://www.rug.nl/research/portal>. For technical reasons the number of authors shown on this cover page is limited to 10 maximum.

Propositions

Wei Dong

Cross-protection induced by influenza: from infection to vaccines

1. Sequential administration of readily available seasonal whole inactivated virus influenza vaccines could provide partial cross-protection in case of a new pandemic. (This thesis)
2. Memory immune responses generated by previous influenza virus infection are helpful for protection against infection by variant influenza virus strains.
3. Multiple immune mechanisms are required for optimal cross-protection. (This thesis)
4. Vaccination with a combination of mucosal adjuvants and whole inactivated influenza vaccines is a promising strategy to enhance cross-protection. (This thesis)
5. Influenza virosomes with conjugated antigen and adjuvant incorporated in the membrane are effective in priming of CTLs in vivo. (This thesis)
6. Previous infection by unrelated pathogens can have profound effects on influenza vaccine induced immune responses. Specific pathogen free mice are thus not a good model to evaluate the effectiveness of vaccines in a natural situation. (This thesis)
7. Be thankful for all the rude, obnoxious and difficult people, you meet in your life, they serve as important reminder how NOT to be.
8. Chance favors the prepared mind. (Louis Pasteur)
9. 非淡泊无以明志，非宁静无以致远。（诸葛亮）

If you don't look at the fame and fortune in front of you, you won't have a clear ambition. If you can't study calmly, you can't achieve your lofty goals. (Zhuge Liang)