

Stellingen behorende bij het proefschrift

## **Immunoregulatory Properties of Break Down Products of Human Choriogonadotropin**

Rotterdam, 26 mei 2010

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1. Various presumed *waste products* of hCG contribute to the heterogeneity in its biological functions.

*This thesis*

2. LPS-induced shock in experimental animals is not a reliable model for evaluation of candidate drugs for the treatment of septic shock.

*This thesis*

3. Based on the MHC class I and MHC class II binding potential and proteolytic nick sites regulatory oligopeptides can be selected from the primary structure of a protein.

*Khan and Benner, patent 'Gene regulatory peptides'. AU publication number 2002/328028*

4. Fine tuning of inflammation is essential for successful pregnancy.

Throughout pregnancy hCG plays a central role in this fine tuning.

*This thesis*

5. Wherever a severe immune reaction must be brought under control, small peptides from the loop-2 region of  $\beta$ -hCG should be considered as drug candidates.

*This thesis*

6. There are no drugs that affect only one specific process. Even targeting a single gene can have profound side effects.

7. Glycosylation of a protein serves a regulatory role in the degradation of that protein and the liberation of regulatory oligopeptides.
8. Protein-receptor interactions have merely the function of guiding a protein to a cellular site where liberation of small oligopeptides by proteolytic processes mediates the physiological effect.
9. The most promising route to feeding 9 billion people is to fight loss and waste.

*Marion Guillou, Nature 464, 969 (2010).*

10. The one and only true meaning of scientific publications is to stimulate the scientific debate.

11. "For every fatal shooting, there were roughly three non-fatal shootings. And, folks, this is unacceptable in America. It's just unacceptable. And we're going to do something about it."

*George W. Bush, Philadelphia, Penn., May 14, 2001, from About.com: political humor (Bushisms) Web site: <http://politicalhumor.about.com/library/blbushisms2001.htm>*

