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Universiteit Leiden



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**Title:** Endoplasmic reticulum stress in the lung : lessons from  $\alpha$ 1-antitrypsin deficiency

**Issue Date:** 2014-06-04

Stellingen behorende bij het proefschrift

**Endoplasmic reticulum stress in the lung:  
lessons from  $\alpha_1$ -antitrypsin deficiency**

**Statements**

1. The Z mutation in  $\alpha_1$ -antitrypsin deficiency does not cause the formation of polymers in any lung cell type (*this thesis*)
2. To know the liver is NOT to understand the lung (*this thesis*, following a quote from prof. dr. David A. Lomas, University College London, United Kingdom)
3. The integrated stress response (ISR) contributes to the pathogenesis of more lung diseases than the ER stress response (*this thesis*)
4. Phosphorylation of eIF2 $\alpha$  is the most important event in the ER stress response (*this thesis*)
5. Monocyte-derived macrophages cannot be used as a model for alveolar macrophages (*this thesis*)
6. The microbial stress response is a bacterial response allowing micro-organisms to survive environmental changes, rather than a stress response of host cells encountering bacteria. (Claudio N. *et al.* EMBO J 2013;32:1214-24)
7. Biomedical research needs practicing physicians -- understanding the issues that arise in the clinic is arguably one of the best ways to inform the work done in the lab. (Prof. dr. Andrew Schafer, Weill Cornell Medical College, New York, USA)
8. The way to get started is to quit talking and begin doing. (Walt Disney, 1901-1966)
9. Don't cry because it's over. Smile because it happened. (Dr. Seuss, 1904-1991)
10. Be sceptical, ask questions, demand proof. Demand evidence. Don't take anything for granted. But here's the thing: when you get proof, you need to accept the proof. And we're not that good at doing that. (Michael Specter, American journalist and writer of "Denialism: how irrational thinking hinders scientific progress, harms the planet, and threatens our lives", 2009)
11. Left is right but that does not mean that right is wrong.