

# The Pre-analytical Phase of Pathology Research and Diagnostics

## Stellingen

behorende bij het proefschrift

1. Gene expression measured in *ex vivo* tissue samples does not reflect *in vivo* gene expression. (this thesis)
2. A RT-qPCR finger print of surgery sensitive genes can be used to measure the effects of surgery related variables on *ex vivo* gene expression variation. (this thesis)
3. Sample size and biopsy transport methods can influence RNA integrity and gene expression. (this thesis)
4. Dividing biobanks samples into fit-for-purpose groups gives a clear functional overview of tissuebank quality control. (this thesis)
5. If standardization of the pre-analytical phase is not feasible, the only solution is to record and use pre-analytical variables to optimize the analytical phase, or to refine statistical analysis. (this thesis)
6. Ready to use *in situ* hybridisatie assays zijn het toppunt van alchemie.
7. Door een wisselende mate van subjectiviteit van op histo-morfologie gebaseerde observaties en niet-gestandaardiseerde verslaglegging is het pathologieverslag een wankele basis voor translationeel onderzoek.
8. Zolang politiek bedreven wordt door sterk versplinterde coalities en via het sluiten van compromissen, is het stemmen op een politieke partij zinloos.
9. Creativity is just connecting things. When you ask creative people how they did something, they feel a little guilty because they didn't really do it, they just saw something. It seemed obvious to them after a while. That's because they were able to connect experiences they've had and synthesize new things. - Steve Jobs
10. The proportion of the scientific workforce that maintains a continuous uninterrupted stream of publications each and every year over many years is very limited, but it accounts for the lion's share of researchers with high citation impact. This finding may have implications for the structure, stability and vulnerability of the scientific workforce. - John Ioannidis, et al. 2014.
11. I find that people in general are very ready to help, but you should encourage them to feel that their efforts to aid you are worthwhile by doing as well as you possibly can. - Stephen Hawking