Stellingen

behorende bij het proefschrift

The ORCA-ome as a key to understanding alkaloid biosynthesis in *Catharanthus roseus*

1. ORCA2 and ORCA3 control different, but overlapping sets of genes. This thesis

2. ORCA transcription factors do not have a role in primary metabolism but instead differentially affect secondary metabolism. This thesis

3. Combination of different OMICS techniques in gene discovery studies is a good approach towards success. This thesis

4. Elevated expression of all known TIA pathway genes in response to MeJA indicates the capacity of suspension–cultured *C. roseus* cells to produce commercially important anticancer drugs provided that the availability of the precursors is guaranteed. This thesis


6. Application of the carborundum abrasion technique is a good option for metabolomics of a single cell type since it was successful for proteome and transcriptome analysis. Dylan et al. (2008) Plant J. 53:225-236
7. Reproducibility is a requirement for scientific results, but it becomes very difficult to reproduce a phylogenetic tree when the input sequences are changed in the DNA database.  

8. The successful creation of a living cell with a synthetic genome merely makes man a replicator of life, not a creator.  
Gibson et al. (2010) Science DOI: 10.1126/science.1190719

9. The advancement in biological sciences is to a large extent dependent on advancement in physical sciences.

10. Research questions asked by a scientist are to a large degree influenced by his culture.

11. Publishing scientific results is an organized way of writing history, which makes every scientific author also a historian.

12. Dutch people seem to be very interested in philosophical issues, especially after having consumed significant quantities of alcohol.

29th June 2010
Ghulam Hasnain