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Evaluation of molecular profiling platforms in clinical pharmacology

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Stellingen behorende bij het proefschrift:

‘EVALUATION OF MOLECULAR PROFILING PLATFORMS
IN CLINICAL PHARMACOLOGY’

- 1 The modified Bergström needle is a suitable device to obtain high quality muscle tissue samples in a relatively non-invasive manner. (*this thesis*)
- 2 In type 2 Diabetes Mellitus patients, the anti-inflammatory effects of rosiglitazone do not precede its glucose lowering effects. (*this thesis*)
- 3 cDNA-based microarray technology is currently unable to provide a molecular ‘fingerprint’ of the transcriptional response to treatment with rosiglitazone or ciprofibrate in their human target tissues. (*this thesis*)
- 4 The early changes in endogenous urinary metabolite profiles observed after two weeks treatment with rosiglitazone in type 2 Diabetes Mellitus patients may be related to a reduction in hepatic gluconeogenesis. (*this thesis*)
- 5 The high clinical attrition rate of candidate drugs (reaching up to 92% in 2004) demands more reliable, early read-outs of whether and when an experimental treatment works. (<http://www.fda.gov/oc/initiatives/criticalpath/whitepaper.html>)
- 6 Publicly available metabolite information from ‘The Human Metabolome Project’ will enable future investigators to more fully characterize and understand a wide range of important metabolic disorders and drug mechanisms. (<http://www.metabolomics.ca>)
- 7 Although microarrays are capable of rapidly measuring the expression levels of many genes simultaneously, the analysis and interpretation of the vast data sets is an arduous and time-consuming process.

- 8** Initial monotherapy with rosiglitazone can significantly delay the progression of hyperglycaemia in type 2 Diabetes Mellitus patients as compared to treatment with either metformin or glyburide alone. (*Kahn et al. N Engl J Med. 2006 Dec 7;355(23):2427-43*)
- 9** Garlic should not be confused with efficacious lipid-lowering anti-inflammatory medicine. (*van Doorn et al. Am J Clin Nutr. 2006 Dec;84(6):1324-9*)
- 10** Although the 'impact factor' has little to do with science, it has a great impact on scientists.
- 11** Writing down the fewest words usually takes the most hours.
- 12** Juist de tijd die als een flits voorbij gaat zou eeuwig mogen duren.