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A question based approach to drug development

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**STELLINGEN BEHOREND BIJ HET PROEFSCHRIFT:
'A QUESTION BASED APPROACH TO DRUG DEVELOPMENT'**

- 1** The true risks of innovative drug development can be assessed better with a question-based approach than with Net Present Value (NPV) calculations. (*this thesis*)
- 2** In contrast to more traditional approaches, adding an early evaluation study to a drug development program can increase (rather than decrease) the project value. (*this thesis*)
- 3** Any attempt to integrate scientific knowledge rather than just operational aspects into a model for drug development will reduce the enormous costs of the development of new drugs. (*this thesis*)
- 4** The number of tests used in human psychopharmacology is excessive and reduction of the number of tests as well as further evaluation and validation is long overdue. (*this thesis*)
- 5** Although the quest for a non-sedative anxiolytic compound apparently continues, it remains to be demonstrated that sedation is not the primary mechanism of action of anxiolytic agents in most patients.
- 6** Homeopathy cannot be viewed as an evidence-based form of therapy but is effective for some patients. (*Ernst, Br J Clin Pharmacol* 54;6, 577-582, 2002)
- 7** Functional deficits of recreational MDMA ('Ecstasy') use may remain long after drug use has ceased and are consistent with serotonergic axonal loss in higher brain regions. (*Parrott et al, Pharmacol Biochem Behav.* 71;4, 837-44, 2002)
- 8** Motilin does not play a primary role in the pathophysiology of functional dyspepsia. (*Kamerling et al, Am J Physiol Gastrointest Liver Physiol* 284, G776-G781, 2003)
- 9** If institutions and sponsors fail to ensure publication of the knowledge obtained from the research, they arguably fail to honour their implicit commitment to the subjects who volunteered for the study. (*Schulman et al, New Engl J Med*, 347;17, 1335-1341, 2002)

- 10** If you want to know what a man's like, take a good look at how he treats his inferiors, not his equals. (*Sirius Black, Harry Potter and the goblet of fire*)
- 11** The saddest aspect of life right now is that science gathers knowledge faster than society gathers wisdom. (*Isaac Asimov*)
- 12** A good traveller has no fixed plans, and is not intent on arriving. (*Lao Tzu*)