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Leiden  
The Netherlands

## **Transdermal iontophoresis of dopaminergic (pro) drugs : from formulation to in vivo application**

Ackaert, O.

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# Stellingen

Behorende bij het proefschrift

## Transdermal iontophoresis of dopaminergic (pro)drugs: From formulation to *in vivo* application

1. The observation of two skin release constants suggests the presence of at least two parallel transport routes during transdermal iontophoretic transport.

*This thesis*

2. The use of whole transport profiles to describe iontophoretic transport has a clear advantage over the use of single parameters, such as the steady state flux.

*This thesis*

3. The synthesis of ester prodrugs for transdermal delivery is an attractive approach to tailor the transport properties, the pharmacokinetic profile and the pharmacodynamic response.

*This thesis*

4. Steady state plasma concentrations of (S)-5-OH-DPAT can be translated into continuous dopaminergic stimulation.

*This thesis*

5. Despite the introduction of several new drugs to the anti-Parkinsonian armamentarium, no single best treatment exists for an individual patient with Parkinson disease.

D. Deleu et al. *Clin. Pharmacokinet*, 2002. 41(4): 261-309

6. Unlike other techniques of transdermal delivery enhancement, iontophoresis acts on the molecule itself allowing a better control of the dose applied.

A. Sieg, V. Wascotte, *J. Drug. Target*. 2009. 17(9):690-700.

7. Successful implementation of translational PK–PD modelling and simulation early in the development cycle could have a substantial impact on overall efficiency and success of pharmaceutical research.

B.M. Agoram et al. *Drug Discovery Today*. 2007. 12 (23-24): 1018-1024

8. Not everything that counts can be counted and not everything that can be counted counts.

Albert Einstein

9. Wie werkt met lichtgevoelige moleculen, tast soms volledig in het duister.

10. Het *Vlaams* beschouwen als één bepaalde variant van het Nederlands is eerder een politiek gewenste interpretatie dan een correcte beschrijving van de werkelijkheid van de dag.

Wikipedia: <http://nl.wikipedia.org/wiki/Vlaams>

11. Ware kennis bestaat erin te weten dat men niets weet.

Socrates, 469 v.C. - 399 v.C.