

# Impact of stress exposure and pharmacological intervention on a mouse model of Alzheimer's disease

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## **Impact of stress exposure and pharmacological intervention on a mouse model of Alzheimer's disease**

***Annerieke Sierksma***

***Maastricht 2012***

1. Perturbations during the prenatal period can make long-lasting imprints on cognitive and affective behavior. *(this thesis)*
2. The outcome of an environmental exposure can be highly dependent on the sex of the research subject. *(this thesis)*
3. Phosphodiesterase inhibitors should become novel therapeutic agents for the treatment of dementia. *(this thesis)*
4. Given the proconvulsive properties of fluoxetine, its prescription to AD patients should be done with caution. *(this thesis)*
5. Trying to identify which biological mechanisms underlie specific behaviors is often like looking for a needle in a haystack.
6. Getting one's PhD is not for the faint-hearted: it takes perseverance, dedication, and in fundamental neuroscience, a red thumb.
7. Every population, including doctors, politicians and PhD-students, can be fitted on a normal distribution. Yet, we always expect their performance to be above the 95<sup>th</sup> percentile.
8. Scribero ergo sum.
9. 'A prudent question is one half of wisdom.' *(Francis Bacon (1561-1626))*
10. 'Success is the ability to go from one failure to another with no loss of enthusiasm.' *(Winston Churchill (1874-1965))*

*Stellingen behorende tot het proefschrift*

**Impact of stress exposure and pharmacological intervention  
on a mouse model of Alzheimer's disease**

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1. Verstoringen tijdens de prenatale periode kunnen een langdurig effect nalaten op cognitief en affectief gedrag. *(dit proefschrift)*
2. De effecten van blootstelling aan een bepaalde omgevingsfactor kunnen in hoge mate afhangen van het geslacht van je onderzoekssubject. *(dit proefschrift)*
3. Phosphodiesterase remmers zouden nieuwe therapeutische middelen moeten worden in de behandeling van dementie. *(dit proefschrift)*
4. Gezien de proconvulsieve eigenschappen van fluoxetine, zou dit middel met voorzichtigheid voorgeschreven moeten worden aan patienten met de ziekte van Alzheimer. *(dit proefschrift)*
5. Het uitzoeken welke biologische mechanismen ten grondslag liggen aan specifiek gedrag is vaak als het zoeken naar een naald in een hooiberg.
6. Promoveren is niet voor watjes: het vereist doorzettingsvermogen, toewijding, en in basale neurowetenschappen, rode vingers.
7. Elke populatie, waaronder artsen, politici en PhD-studenten, valt binnen een normaalverdeling. Toch verwachten we immer dat hun prestatie boven het 95<sup>ste</sup> percentiel ligt.
8. Scribero ergo sum
9. 'Een zorgvuldige vraag is de halve wijsheid.' *(Francis Bacon (1561-1626))*
10. 'Succes is de vaardigheid van de ene mislukking naar de andere te gaan zonder je enthousiasme te verliezen.' *(Winston Churchill (1874-1965))*