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Expression and function of nuclear receptor coregulators in brain: understanding the cell-specific effects of glucocorticoids

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Stellingen behorende bij het proefschrift

'Expression and Function of Nuclear Receptor Coregulators in Brain:
Understanding the Cell-Specific Effects of Glucocorticoids'

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1. The uneven distribution of N-CoR and SMRT suggests distinct physiological roles for both proteins (this thesis).
2. Coactivators and corepressors do not mediate opposing effects on GR-mediated CRH gene regulation (this thesis).
3. It is likely that effective GR-mediated repression of the stress-induced CRH mRNA expression will only occur in specific situations (this thesis).
4. The promoter of the GILZ gene is suitable for studying GR binding to DNA using ChIP-assays (this thesis).
5. Recruitment of specific cocktails of coregulators induced by synthetic glucocorticoids can lead to more selective drugs.
6. To understand the effects of glucocorticoids, more attention should be given to additional regulating sequences present in the promoter in the vicinity of the GREs (adapted from Grenier J. *et al.* 2006 Mol. Endocrinol. Feb;20(2):254-67).
7. Target genes of GR are highly conserved through evolution (So A.Y. *et al.* 2007 PLoS Genet. Jun;3(6):e94), but adaptive strategies to stress are highly species specific.
8. Steroid-sensitive cancers teach us things about the brain.
9. Indien het denkwerk een homeostase zou kennen, dan zou geen enkel proefschrift tot nieuwe inzichten leiden.
10. Homeostase en evolutie zijn zoals conservatief en progressief, twee moeilijk verenigbare begrippen.
11. Love is merely a madness, and, I tell you, deserves as well a dark house and a whip as madmen do (W. Shakespeare. As You Like It -Act III, Scene II).
12. Liefhebben is een werkwoord.