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Universiteit Leiden



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Title: WRKY transcription factors involved in PR-1 gene expression in Arabidopsis

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Stellingen

behorende bij het proefschrift

WRKY transcription factors involved in *PR-1* gene expression in *Arabidopsis*

- 1 The general opinion on the W-box as consensus DNA binding sequence for WRKY transcription factors needs reconsideration. (This thesis)
- 2 DNA-protein binding studies might gain from using the (right) half of the protein. (This thesis)
- 3 WRKYs with the same lysine for glutamine variation in the DNA-binding domain do not bind to the same DNA sequence. (This thesis)
- 4 It is likely that WRKYs activate expression of response genes through specific interactions with other transcription factors through their highly variable N-terminal halves. (This thesis)
- 5 Two recent publications on the mechanism by which NPR1 functions in activation of gene expression present conflicting results (Fu *et al.*, 2012; Wu *et al.*, 2012)
- 6 AtWRKY18 does not have a pleiotropic effect on multiple signaling pathways as has been proposed by Rushton *et al.* (2012).
- 7 The title of the paper by Kidd *et al.* (2009) suggests a more specific role for transcriptional mediator MED25 than shown by their results.

- 8 The finding that low concentrations of salicylic acid and jasmonic acid have a synergistic effect on the expression of *PR-1* and *PDF1.2* at early time points after treatment is not relevant for these late response genes. (Mur *et al.*, 2006)
- 9 To have your PhD on time you need three goods: hypothesis, amount of money and working environment.
- 10 Science is like signal transduction. Their pathways are full of crossroads and side tracks and seldom run straight.
- 11 The results of first year molecular biological experiments are as unpredictable as Dutch weather.
- 12 Science is an asylum of premature and failed ideas.

17 oktober 2012

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