Stellingen
behorende bij het proefschrift

Functional analysis of jasmonate-responsive transcription factors in *Arabidopsis thaliana*

1. The promoter of the *PDF1.2* gene contains at least two functionally equivalent GCC boxes instead of one as reported earlier.
   
   *This thesis*
   
   *Brown et al. (2003) Plant Physiol. 132, 1020-1032*

2. Besides COI1 there is another jasmonate receptor.
   
   *This thesis*
   
   *Thines et al. (2007) Nature 448, 661-665*

3. Jasmonic acid does not only increase the amount of ORA59 protein in the cell by acting at the transcriptional level but JA also causes stabilization of ORA59 protein.
   
   *This thesis*
   
   *Pré (2006) PhD thesis*
   
   *Atallah (2005) PhD thesis*

4. It is likely that ORA59 protein specifically interacts with an F-box protein to be targeted for proteasome-mediated degradation.
   
   *This thesis*

5. ORA59 is retained in the cytoplasm by interaction with a repressor protein in the absence of jasmonate.
   
   *This thesis*

6. Based on the observation that the activity of the jasmonate-responsive element (JRE) from the *ORCA3* promoter in Arabidopsis is controlled by AtMYC2, it is very likely that the close homolog CrMYC2 controls the activity of the JRE in *Catharanthus roseus*.
   
   *This thesis*
7. Although genetic analysis indicates that JAZ proteins are repressors of JA responses, this remains to be directly demonstrated.

*Chini et al. (2007) Nature. 448, 666-671*

*Thines et al. (2007) Nature. 448, 661-665*

8. A variety of JA response elements appear to exist, including the G box and closely related variants, which respond to JA and are negatively affected by ET, and the GCC box which responds in a synergistic manner to JA combined with ET.

*This thesis*

9. Recent research in plant hormone signaling has uncovered two major concepts; first, hormone signaling pathways are connected in complex regulatory networks; and second, ubiquitin-mediated protein degradation is a central regulatory mechanism. In the case of JA signaling, both concepts apply.

*Lorenzo and Solano (2005), Curr. Opin. Plant Biol. 8, 532-540*

10. The scientific study of organisms and their properties (down to proteins and genes) requires analysis both of “how does it work” and of “how did it come to be that way”.

11. People should be appreciated for what they are, apart from their race, origin and religion.

12. The saying of Walt Disney that “All our dreams can come true, if we have the courage to pursue them” has certainly some truth in it, but depends on the dream.