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Title: Functional analysis of ORA47, a key regulator of jasmonate biosynthesis in Arabidopsis
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Stellingen

behorende bij het proefschrift

**Functional analysis of ORA47, a key regulator of jasmonate biosynthesis in Arabidopsis**

1. The AP2/ERF-domain transcription factor ORA47 is an important regulator of jasmonate biosynthesis in *Arabidopsis thaliana*.
   This thesis

2. The transcription factors MYC2, MYC3 and MYC4 have a very similar DNA binding preference and are equally important in the regulation of ORA47 gene expression.
   This thesis

3. The repressors JAZ1 and JAZ3 are not functionally equivalent in regulation of jasmonate-responsive gene expression.
   This thesis

4. ORA47 is regulated by MYC transcription factors at the gene expression level, but other mechanisms regulating ORA47 at the protein level must exist.
   This thesis

5. The JAZ repressor proteins can interact with a wide variety of other proteins and are important for crosstalk between phytohormonal signaling pathways.
   Wild *et al.* (2012)
   Plant Cell doi: http://dx.doi.org/10.1105/tpc.112.101428
6. A key question in the determination of the effect of signaling pathways on tortoise feeding is whether Arabidopsis mutant plants that look the same to the human eye are also undistinguishable to the tortoise eye.

7. Different homeostatic steps are involved in jasmonate metabolism to keep the JA-Ile burst at the optimum level for the expression of early and late response genes.
Woldemariam et al. (2012) Plant J DOI: 10.1111/j.1365-13X.2012.05117.x

8. OsMAPK2, OsMSRMK2, OsBIMK1, OsMAP1, OsMPK3, OsMPK5, OsMAPK5 and OsWIPK are names used in scientific literature for the same protein. This common practice unnecessarily complicates literature searches, scientific discussions and the reading and writing of articles.

9. A good hypothesis is the key for a successful experiment.

10. We have two ears and one tongue, to listen twice as much as to speak.

11. Life is like an ice cube which does not exist forever, we should learn how to make it useful.

October 17th, 2012
Muhammad Khurshid