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Dormancy and drought — One antisense to rule them all?

Antysensowna transkrypcja jako regulator spoczynku nasion i odporności na suszę

Plants have developed multiple strategies to sense the external environment and to adapt growth accordingly. *Delay of germination 1 (DOG1)* is a major quantitative trait locus (QTL) for seed dormancy strength in *Arabidopsis thaliana*. *DOG1* is extensively regulated, with an antisense transcript (*asDOG1*) suppressing its expression in seeds and in mature plants. We showed that ABA elevates *DOG1* suppression by suppressing *asDOG1* in mature plants. This leads to the discovery of an unexpected role of *DOG1* gene in drought resistance. In this talk we will describe our efforts to understand *DOG1* antisense regulation by endogenous and exogenous signals.