

**SEED GERMINATION INHIBITION OF ANGICO VERMELHO [*Anadenanthera peregrina* (Benth.) Speg.] BY DESICCATION AND ABA TREATMENT<sup>1</sup>****Douglas Barduche<sup>2</sup>, Renato Paiva<sup>3</sup>, Claudinei Andreoli<sup>4</sup> & Edilson Paiva<sup>5</sup>**

In this work we studied the effect of ABA and seed desiccation on the germination and embryo protein profile of Angico vermelho, a Brazilian leguminous wood tree which shows non-dormant seeds. The treatments consisted of mature seeds soaked for 5 hours either in dH<sub>2</sub>O or in 10<sup>-4</sup> M solution of ABA. The water soaked seeds were either placed to germinate right after soaking or after drying for 24 hours at 37° C. The germination conditions consisted in placing the seeds in Petri dishes with filter papers wetted with the soaking solution at 30° C in light for 8 hours and 20° C in the dark for 16 hours. SDS protein profiles were obtained from embryos incubated for 24 hours in a 3% sucrose solution containing 0 or 10<sup>-4</sup> M of ABA and also from embryos excised from seeds submitted to drying for 24 hours at 37° C. In both cases the seeds were previously soaked for 5 hours in dH<sub>2</sub>O. After 2 days under germination conditions the dH<sub>2</sub>O soaked seeds showed 76% of germination while the seeds soaked in the 10<sup>-4</sup> M of ABA solution and those dried for 24 hours after soaking showed a germination around 30%. The SDS protein patterns obtained from the excised embryos were similar for all three treatments. The germination results indicated that desiccation at 37° C inhibited germination on the same way as the ABA treatment.

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