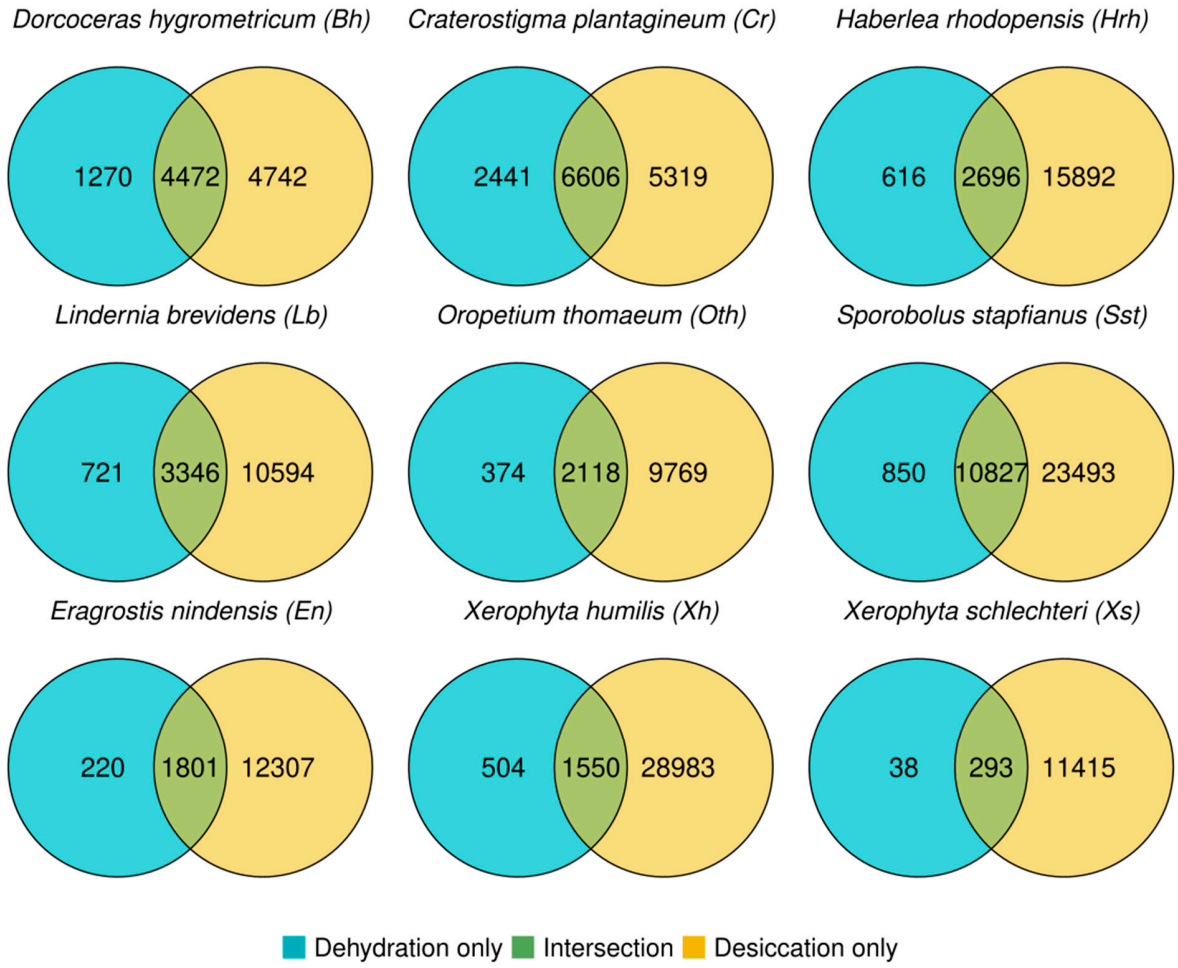

Supplementary Figure S1. Overlap of differentially expressed genes (DEGs) between dehydration and desiccation stages across the nine studied species. Venn diagrams depict the number of unique and shared DEGs for each species during dehydration (cyan; DP > 40) and desiccation (yellow; DP ≤ 40) relative to hydrated controls ($p_{adj} < 0.05$). Overlapping green regions indicate genes responsive to both drought stages. Species names and their corresponding abbreviations are as follows: *Dorcoceras hygrometricum* (Bh), *Craterostigma plantagineum* (Cr), *Haberlea rhodopensis* (Hrh), *Lindernia brevidens* (Lb), *Oropetium thomaeum* (Oth), *Sporobolus stapfianus* (Sst), *Eragrostis nindensis* (En), *Xerophyta humilis* (Xh), and *Xerophyta schlechteri* (Xs).