

Supplementary Materials

Effects of Melatonin on Antioxidant Capacity in Naked Oat Seedlings under Drought Stress

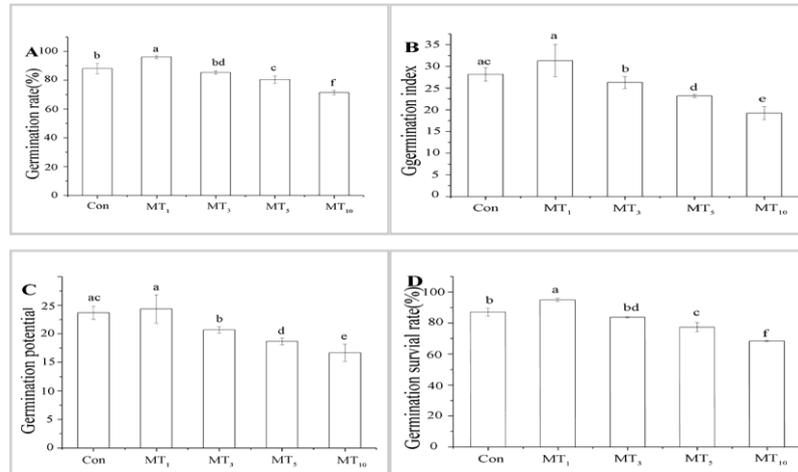


Figure S1. Effect of different MT concentrations on germination of naked oat seeds. (A) Germination rate; (B) germination index; (C) germination potential; (D) germination survival rate. Values represent mean \pm standard deviation ($n = 3$). Different letters (a, b, c, d, e) on the bars indicate significant differences ($p < 0.05$) between different treatments according to Duncan's multiple range test comparison. Control seeds without melatonin pretreatment, Con; seeds pretreated with MT at concentrations of 100 μM (MT₁), 300 μM (MT₃), 500 μM (MT₅), and 1,000 μM (MT₁₀).

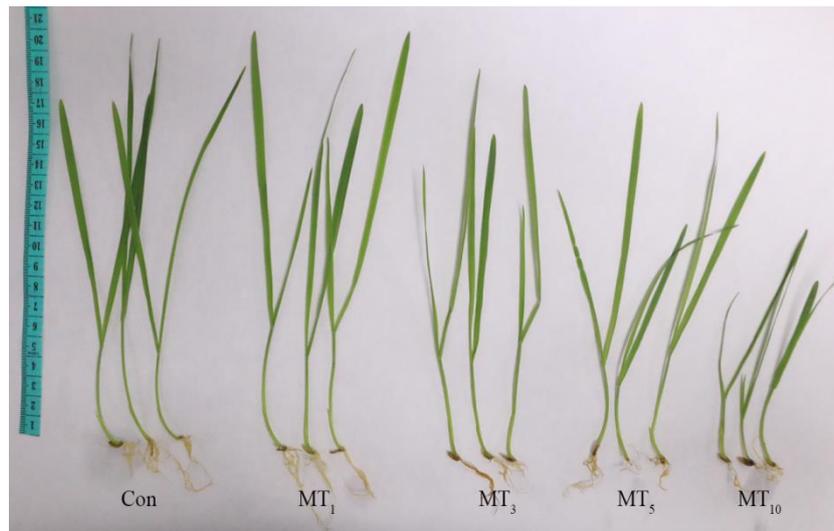


Figure S2. Effect of spraying different concentrations of MT on the growth of naked oat seedlings. Photograph was taken after spraying the MT for 1 day. Control seedlings without MT pretreatment, Con; seedlings sprayed with MT at concentrations of 100 μM (MT₁), 300 μM (MT₃), 500 μM (MT₅), and 1,000 μM (MT₁₀).

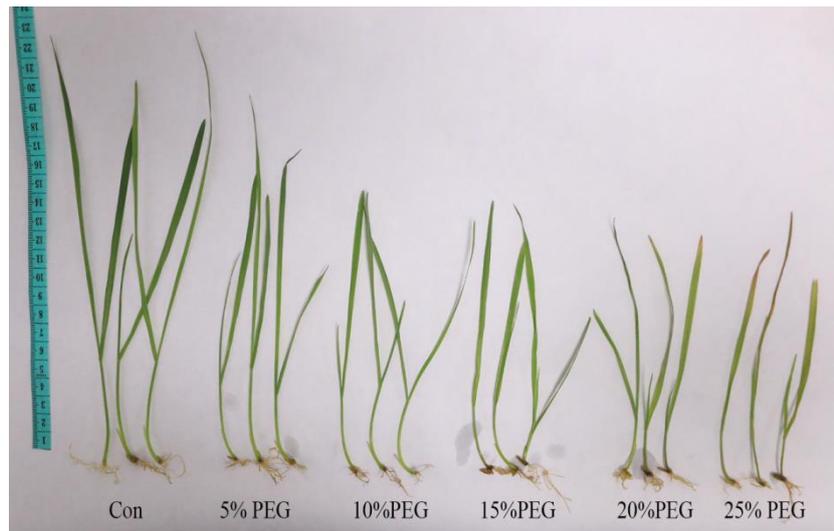


Figure S3. Effect of different concentrations of drought stress treatment on the growth of naked oat seedlings. Photograph was taken after drought for 1 day. Control seedlings without drought pretreatment, Con; seedlings pretreated with PEG-6000 at concentrations of 5 % (5 % PEG), 10 % (10 % PEG), 15 % (15 % PEG), 20% (20 % PEG), and 25% (25 % PEG).

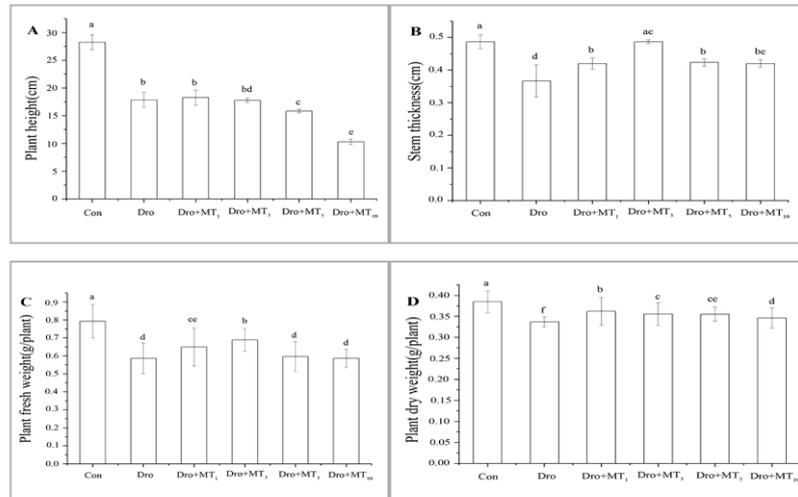


Figure S4. Effect of spraying different concentrations of MT on the growth of naked oat seedlings under 20% PEG-6000 drought stress. **(A)** Plant height; **(B)** stem thickness; **(C)** plant fresh weight; **(D)** plant dry weight. Values represent mean \pm standard deviation ($n = 3$). Different letters on the bars indicate significant differences ($p < 0.05$) between different treatments according to Duncan's multiple range test comparison. Control-untreated, Con; drought (Dro) plus the MT pretreatment at concentrations of 100 μ M (Dro + MT₁), 300 μ M (Dro + MT₃), 500 μ M (Dro + MT₅), and 1,000 μ M (Dro + MT₁₀).