

Table 1 suppl. Hydrogen peroxide (H₂O₂), superoxide radical (O₂^{•−}), hydroxyl radical (•OH), and malondialdehyde (MDA) content variations in male and female *Populus deltoides*. F_S - sex effect, F_W - waterlogging effect, F_{Na} - salt effect, F_{Ca} - calcium effect, F_{Na×Ca} - salt × calcium interaction, F_{S×W} - sex × waterlogging interaction, F_{S×Na} - sex × salt interaction, F_{S×Ca} - sex × calcium interaction, F_{S×Na×Ca} - sex × salt × calcium interaction - F_{W×Na} - waterlogging × salt interaction, F_{W×Ca} - waterlogging × calcium interaction, F_{W×Na×Ca} - waterlogging × salt × calcium interaction, F_{S×W×Na×Ca} - sex × waterlogging × salt × calcium interaction.

P	H ₂ O ₂	O ₂ ^{•−}	•OH	MDA
P > F _S	0.000***	0.662 ns	0.146 ns	0.019*
P > F _W	0.256 ns	0.002**	0.001***	0.000***
P > F _{Na}	0.760 ns	0.040*	0.465 ns	0.431 ns
P > F _{Ca}	0.495 ns	0.040*	0.200 ns	0.002**
P > F _{Na×Ca}	0.000***	0.000***	0.592 ns	0.032*
P > F _{S×W}	0.834 ns	0.240 ns	0.603 ns	0.854 ns
P > F _{S×Na}	0.083 ns	0.216 ns	0.978 ns	0.403 ns
P > F _{S×Ca}	0.525 ns	0.040*	0.002**	0.205 ns
P > F _{S×Na×Ca}	0.087 ns	0.060 ns	0.822 ns	0.174 ns
P > F _{W×Na}	0.000***	0.321 ns	0.000***	0.042*
P > F _{W×Ca}	0.008**	0.216 ns	0.754 ns	0.892 ns
P > F _{W×Na×Ca}	0.006**	0.035*	0.096 ns	0.832 ns
P > F _{S×W×Na×Ca}	0.042*	0.197 ns	0.014*	0.406 ns

Table 2 Suppl. Soluble protein content and activities of peroxidase (POD), superoxide dismutase (SOD), and ascorbate peroxidase (APX) variations in male and female *Populus deltoides*. For explanation of abbreviations - see Table 1 Suppl.

P	Soluble protein	POD	SOD	APX
P > F _S	0.000***	0.233 ns	0.677 ns	0.842 ns
P > F _W	0.020*	0.709 ns	0.001***	0.977 ns
P > F _{Na}	0.605 ns	0.226 ns	0.000***	0.754 ns
P > F _{Ca}	0.002**	0.055 ns	0.000***	0.005**
P > F _{Na×Ca}	0.088 ns	0.148 ns	0.032*	0.35 ns
P > F _{S×W}	0.011*	0.246 ns	0.000***	0.669 ns
P > F _{S×Na}	0.034*	0.489 ns	0.562 ns	0.711 ns
P > F _{S×Ca}	0.895 ns	0.140 ns	0.697 ns	0.322 ns
P > F _{S×Na×Ca}	0.042*	0.454 ns	0.132 ns	0.006**
P > F _{W×Na}	0.000***	0.103 ns	0.637 ns	0.015*
P > F _{W×Ca}	0.000***	0.202 ns	0.000***	0.932 ns
P > F _{W×Na×Ca}	0.066 ns	0.598 ns	0.009**	0.887 ns
P > F _{S×W×Na×Ca}	0.004**	0.808 ns	0.001***	0.106 ns