

Table S1. Analysis of variances (mean squares) for the germination and the growth parameters of *T. pannonicum* in four salt concentrations.

Trait	Sources of Variations	
	S	Error
df	3	8
Germination parameters	GP	2929 **
	GI	36.5 **
	MGT	17.4 **
	GE	346 **
Growth parameters	SL	141 **
	RL	7.00 **
	FM _T	11.5 **
	FM _S	15.8 **
	FM _R	0.910 n.s

GP= Germination percentage; GI= Germination index; MGT= Mean germination time; GE= Germination energy; SL= Shoot length; RL= Root length; FM_T = Total Fresh mass; FM_S = Shoot fresh mass; FM_R = Root fresh mass; S = salinity; df = degrees of freedom; ns = non-significant; Error = within group variance. ** = $p \leq 0.01$.

Table S2. Analysis of variances (mean squares) for the activity of antioxidant enzymes (APX and POD) and salinity stress indicators (H₂O₂ and proline) of *T. pannonicum* in four salt concentrations.

Trait	Sources of Variations	
	S	Error
df	3	8
APX _R	2424 **	0.707
APX _S	9830 **	0.758
APX _L	2086 **	1.78
POD _R	18.9 **	0.228
POD _S	2.78 **	0.031
POD _L	0.89 **	0.027
H ₂ O _{2R}	2.76 *	0.569
H ₂ O _{2S}	106 **	0.434
H ₂ O _{2L}	41.1 **	0.224
P _R	2396 **	0.678
P _S	7554 **	86.2
P _L	4069 **	7.9

APX_R = Root ascorbate peroxidase enzyme activity; APX_S = Steam ascorbate peroxidase enzyme activity; APX_L = Leaf ascorbate peroxidase enzyme activity; POD_R = Root peroxidase enzyme activity; POD_S = Shoot peroxidase enzyme activity; POD_L = Leaf peroxidase enzyme activity; H₂O_{2R} = Root H₂O₂ concentration; H₂O_{2S} = Steam H₂O₂ concentration; H₂O_{2L} = Leaf H₂O₂ concentration; P_R = Root proline concentration; P_S = Steam proline concentration; P_L = Leaf proline concentration; S = salinity; df = degrees of freedom; ns = non-significant; Error = within group variance. * = $p \leq 0.05$, ** = $p \leq 0.01$.

Table S3. Analysis of variances (mean squares) for the activity of antioxidant enzymes (APX and POD) and salinity stress indicators (H₂O₂ and proline) of *T. pannonicum* in eight different times of measurements.

Trait	Sources of Variations	
	Time	Error
df	7	56
APX	3.21 **	0.182
POD	2.31 **	0.238
H ₂ O ₂	369 **	3.59
P	29448 **	833

APX= Ascorbate peroxidase enzyme activity; POD= Peroxidase activity; H₂O₂= H₂O₂ concentration; P= proline concentration; Time = eight different times of measurements; df = degrees of freedom; Error = within group variance, ** = p ≤ 0.01.

Table S4. Correlation coefficients matrix between germination and growth parameters under NaCl stress.

Pearson's r	GP	GI	MGT	GE	SL	RL	FM _T	FM _S	FM _R
GP	-	* 0,998	-0,870	* 1,000	* 0,968	0,885	* 0,995	* 0,971	-0,856
GI	0,998	-	-0,889	* 0,998	* 0,969	0,897	* 0,991	* 0,979	-0,883
MGT	-0,870	-0,889	-	-0,874	-0,935	* -0,989	-0,880	* -0,962	* 0,973
GE	1,000	0,998	-0,874	-	* 0,973	0,891	* 0,997	* 0,973	-0,855
SL	0,968	0,969	-0,935	0,973	-	* 0,963	* 0,985	* 0,987	-0,879
RL	0,885	0,897	-0,989	0,891	0,963	-	0,907	* 0,967	-0,932
FM _T	0,995	0,991	-0,880	0,997	0,985	0,907	-	* 0,975	-0,844
FM _S	0,971	0,979	-0,962	0,973	0,987	0,967	0,975	-	-0,939
FM _R	-0,856	-0,883	0,973	-0,855	-0,879	-0,932	-0,844	-0,939	-

Color in the matrix highlights the sign and magnitude of coefficients. Red indicates a negative correlation, blue indicates positive values. The intensity of the color represents the magnitude of the value when the darker is more extreme. Abbreviations as in Supplementary Table S1. Statistical significance was assessed at the p < 0.05 and marked by a star.

Table S5. Correlation coefficients matrix between antioxidant enzymes and salinity stress indicators under NaCl stress.

Pearson's r	APX root	APX stem	APX leaves	POD root	POD stem	POD leaves	H ₂ O ₂ root	H ₂ O ₂ stem	H ₂ O ₂ leaves	proline root	proline stem	proline leaves
APX root	-	0,624	0,941	0,739	0,891	0,671	0,636	0,838	* 0,961	* 0,978	* 0,990	* 0,985
APX stem	0,624	-	0,817	* 0,644	* 0,751	0,253	0,225	0,323	0,393	* 0,750	* 0,560	* 0,643
APX leaves	0,941	0,817	-	0,661	0,850	0,452	0,655	0,635	0,814	* 0,955	0,891	0,909
POD root	0,739	0,644	0,661	-	0,956	0,895	-0,049	* 0,864	0,699	0,834	* 0,790	* 0,844
POD stem	0,891	0,751	0,850	0,956	-	0,815	0,231	0,866	0,821	* 0,957	0,909	* 0,951
POD leaves	0,671	0,253	0,452	0,895	0,815	-	-0,053	0,959	0,758	0,696	0,765	0,774
H ₂ O ₂ root	0,636	0,225	0,655	-0,049	0,231	-0,053	-	0,232	0,610	0,501	0,557	0,491
H ₂ O ₂ stem	0,838	0,323	0,635	0,864	0,866	0,959	0,232	-	0,912	0,826	0,906	0,898
H ₂ O ₂ leaves	0,961	0,393	0,814	0,699	0,821	0,758	0,610	0,912	-	0,901	* 0,981	0,950
proline root	0,978	0,750	0,955	0,834	0,957	0,696	0,501	0,826	0,901	-	* 0,968	* 0,988
proline stem	0,990	0,560	0,891	0,790	0,909	0,765	0,557	0,906	0,981	0,968	-	* 0,993
proline leaves	0,985	0,643	0,909	0,844	0,951	0,774	0,491	0,898	0,950	0,988	0,993	-

Color in the matrix highlights the sign and magnitude of coefficients. Red indicates a negative correlation, blue indicates positive values. The intensity of the color represents the magnitude of the value when the darker is more extreme. Statistical significance was assessed at the p < 0.05 and marked by a star. APX= Ascorbate peroxidase enzyme activity; POD= Peroxidase activity, H₂O₂= H₂O₂ concentration.

Table S6. Correlation coefficients matrix between antioxidant enzymes and salinity stress indicators under the different times of the duration of salinity stress.

Pearson's r	APX	POD	H ₂ O ₂	proline
APX	-	* 0,984	* 0,666	0,455
POD	0,984	-	* 0,532	0,647
H ₂ O ₂	0,666	0,532	-	* 0,385
proline	0,455	0,647	* 0,385	-

Color in the matrix highlights the sign and magnitude of coefficients. Red indicates a negative correlation, blue indicates positive values. The intensity of the color represents the magnitude of the value when the darker is more extreme. Statistical significance was assessed at the $p < 0.05$ and marked by a star. APX= Ascorbate peroxidase enzyme activity; POD= Peroxidase activity, H₂O₂= H₂O₂ concentration.