

Table S1. F - test for examined biochemical parameters in black poplar clones on different concentrations of NaCl

Sources of variation	Biochemical parameters ¹⁾					
	TPC	TFC	PC	GBC	FPR	DPPH
Salt concentration (A)	5.982 ** 2)	4.296 *	185.790 **	6.516 **	8.963 **	49.681 **
Clone (B)	11.126 **	1.796	58.570 **	2.191	32.812 **	11.713 **
Interaction A×B	1.760	2.806 *	151.120 **	1.543	10.427 **	11.923 **
Time of measurement (R)	11.257 **	7.297 **	37.360 **	21.080 **	16.989 **	438.392 **
Interaction A×R	10.457 **	6.915 **	27.660 **	7.126 **	9.984 **	45.314 **
Interaction A×B	3.553 **	3.859 **	23.400 **	8.675 **	13.569 **	35.426 **
Interaction A×B×R	3.260 **	2.337 **	14.430 **	9.068 **	11.968 **	33.291 **

¹⁾ Labels of biochemical parameter: DPPH - DPPH scavenging activity; TPC - Total phenolics content; TFC - Total flavonoids content; PC - Prolin content; GBC - Glicine betain content; FPR - Flavonoides/Phenolics ratio

²⁾ Labels for F-test: * - significant at p=0.05, ** - significant at p=0.01

Table S2. Tukey HSD test for biochemical parameters in black poplar clones on examined salt concentrations in the first 24 hours

Clone	c(NaCl) (mM)	Time (hours)	Biochemical parameters ¹⁾					
			TPC (mg GAE/g DW)	TFC (mg QE/g DW)	PC (μM/g DW)	GBC (μM/g DW)	FPR	DPPH (mM TEAC)
Bora			4.823 ^b	7.959 ^b	6.423 ^a	31.427 ^a	1.946 ^a	0.565 ^b
Antonije			4.654 ^b	8.574 ^{ab}	5.626 ^b	32.046 ^a	2.070 ^a	0.561 ^b
Pannonia			5.460 ^a	8.535 ^{ab}	4.699 ^c	33.697 ^a	1.537 ^b	0.596 ^{ab}
PE19/66			5.707 ^a	9.187 ^a	5.327 ^b	29.297 ^a	1.669 ^b	0.646 ^a
	0		5.380 ^a	8.895 ^a	5.448 ^b	35.192 ^a	1.708 ^b	0.515 ^b
	150		4.825 ^{ab}	9.152 ^a	4.561 ^c	22.784 ^b	1.950 ^a	0.703 ^a
	300		4.555 ^b	8.575 ^{ab}	4.758 ^c	30.239 ^{ab}	1.976 ^a	0.498 ^b
	450		5.447 ^a	7.627 ^b	7.352 ^a	31.101 ^{ab}	1.669 ^b	0.698 ^a
		03	5.290 ^a	8.975 ^{ab}	5.036 ^{bc}	29.759 ^c	1.987 ^a	0.562 ^b
		08	5.347 ^a	7.984 ^{bc}	5.670 ^b	24.754 ^d	1.535 ^c	0.801 ^a
		12	4.937 ^a	7.711 ^c	6.974 ^a	33.625 ^b	1.768 ^b	0.464 ^c
		24	5.070 ^a	9.727 ^a	4.421 ^c	38.329 ^a	1.960 ^a	0.546 ^b
Bora	0		5.347 ^{abcd}	7.306 ^{ab}	4.908 ^{efg}	39.329 ^a	1.779 ^{cde}	0.437 ^{fg}
Bora	150		4.267 ^{bcd}	8.989 ^{ab}	4.081 ^{fgh}	19.720 ^a	2.191 ^{abc}	0.828 ^{ab}
Bora	300		3.947 ^d	8.421 ^{ab}	3.900 ^{hi}	21.011 ^a	2.228 ^{abc}	0.339 ^g
Bora	450		4.684 ^{abcd}	7.122 ^{ab}	12.805 ^a	29.845 ^a	1.586 ^{de}	0.658 ^{bcd}
Antonije	0		4.966 ^{abcd}	8.352 ^{ab}	5.673 ^{cde}	31.312 ^a	1.595 ^{de}	0.525 ^{cdef}
Antonije	150		4.461 ^{abcd}	9.728 ^{ab}	4.906 ^{efg}	25.496 ^a	2.193 ^{abc}	0.685 ^{bc}
Antonije	300		4.054 ^{cd}	9.689 ^{ab}	6.077 ^{bc}	37.826 ^a	2.573 ^a	0.476 ^{efg}
Antonije	450		4.509 ^{abcd}	6.749 ^b	5.802 ^{cde}	35.017 ^a	2.391 ^{ab}	0.593 ^{cdef}
Pannonia	0		5.198 ^{abcd}	8.927 ^{ab}	5.033 ^{def}	35.185 ^a	1.713 ^{cde}	0.584 ^{cdef}
Pannonia	150		5.602 ^{abcd}	8.331 ^{ab}	3.736 ^{hi}	25.705 ^a	1.479 ^{de}	0.634 ^{cde}
Pannonia	300		5.237 ^{abcd}	7.809 ^{ab}	6.048 ^{bc}	35.507 ^a	1.489 ^{de}	0.540 ^{cdef}
Pannonia	450		6.326 ^a	9.072 ^{ab}	3.980 ^{ghi}	35.414 ^a	1.468 ^{de}	0.627 ^{cde}
PE19/66	0		6.009 ^{abc}	10.216 ^a	5.955 ^{bcd}	34.942 ^a	1.783 ^{cde}	0.509 ^{defg}
PE19/66	150		4.969 ^{abcd}	9.561 ^{ab}	5.522 ^{cde}	20.215 ^a	1.938 ^{bcd}	0.664 ^{bcd}
PE19/66	300		4.982 ^{abcd}	8.380 ^{ab}	3.008 ⁱ	26.614 ^a	1.614 ^{de}	0.635 ^{cde}
PE19/66	450		6.268 ^{ab}	7.564 ^{ab}	6.823 ^b	24.129 ^a	1.230 ^e	0.914 ^a
	0	03	5.704 ^{abc}	9.303 ^{abcd}	5.735 ^{bcde}	30.172 ^{bde}	1.749 ^{bc}	0.499 ^f
	0	08	4.630 ^{defg}	6.427 ^{ef}	7.252 ^{bc}	29.033 ^{bde}	1.500 ^c	0.565 ^{de}
	0	12	5.806 ^{ab}	9.047 ^{abcde}	3.937 ^{fgh}	37.672 ^{ac}	1.725 ^{bc}	0.469 ^f
	0	24	5.380 ^{abcde}	10.803 ^a	4.869 ^{defg}	43.892 ^a	1.858 ^{abc}	0.526 ^{ef}
	150	03	5.208 ^{bcdef}	9.685 ^{abc}	2.862 ^h	24.208 ^{cde}	1.913 ^{abc}	0.684 ^{bc}

	150	08	5.598 ^{abcde}	11.092 ^a	4.630 ^{efgh}	19.201 ^{de}	2.093 ^{ab}	1.047 ^a
	150	12	3.453 ^g	6.729 ^{cdef}	7.358 ^b	23.906 ^{cde}	1.980 ^{abc}	0.544 ^{ef}
	150	24	5.040 ^{bcdef}	9.102 ^{abcde}	3.394 ^{gh}	23.821 ^{cde}	1.815 ^{abc}	0.536 ^{ef}
	300	03	4.814 ^{bcdefe}	9.503 ^{abcde}	5.552 ^{cdef}	21.495 ^{de}	2.101 ^{ab}	0.446 ^f
	300	08	5.685 ^{abd}	10.060 ^{ab}	3.833 ^{fgh}	25.621 ^{cde}	1.788 ^{abc}	0.769 ^b
	300	12	3.621 ^{fg}	6.125 ^{def}	4.868 ^{defg}	32.178 ^{abcde}	1.742 ^{bc}	0.307 ^g
	300	24	4.100 ^{cefg}	8.610 ^{abcde}	4.781 ^{efg}	41.664 ^{ab}	2.273 ^a	0.469 ^{ef}
	450	03	4.606 ^{bcdefe}	7.248 ^{bcdef}	5.821 ^{bcde}	42.339 ^{ab}	2.304 ^a	0.653 ^{cd}
	450	08	6.911 ^a	5.133 ^f	6.569 ^{bcd}	16.603 ^e	0.777 ^d	0.943 ^a
	450	12	5.129 ^{bcdef}	8.272 ^{abcdef}	12.493 ^a	32.649 ^{abcd}	1.648 ^{bc}	0.535 ^{ef}
	450	24	5.142 ^{bcdef}	9.854 ^{abc}	4.526 ^{efgh}	32.814 ^{abcd}	1.945 ^{abc}	0.662 ^{cd}
Bora		03	4.807 ^{abc}	9.288 ^{abcd}	4.143 ^{ef}	31.360 ^{bcde}	2.038 ^{bcd}	0.595 ^{ce}
Bora		08	4.440 ^c	7.014 ^{bcd}	4.324 ^{def}	23.758 ^{de}	1.626 ^{de}	0.692 ^b
Bora		12	5.020 ^{abc}	7.361 ^{bcd}	11.480 ^a	39.854 ^{abc}	2.347 ^{ab}	0.466 ^{fghi}
Bora		24	5.025 ^{abc}	8.174 ^{bcd}	5.746 ^{cde}	30.737 ^{bcde}	1.772 ^{cde}	0.509 ^{dfgh}
Antonije		03	4.457 ^c	9.080 ^{abcd}	6.054 ^{bcd}	33.597 ^{bcde}	2.721 ^a	0.485 ^{ghi}
Antonije		08	4.798 ^{abc}	6.520 ^{cd}	7.205 ^{bc}	32.204 ^{bcde}	1.494 ^e	0.674 ^{bc}
Antonije		12	4.922 ^{abc}	8.633 ^{bcd}	4.815 ^{def}	32.303 ^{bcde}	1.816 ^{cde}	0.530 ^{defgh}
Antonije		24	4.439 ^c	10.063 ^{ab}	4.430 ^{def}	30.080 ^{cde}	2.248 ^{bc}	0.555 ^{def}
Pannonia		03	5.988 ^a	9.503 ^{abc}	5.270 ^{def}	32.481 ^{bcd}	1.503 ^e	0.479 ^{fgh}
Pannonia		08	6.027 ^a	10.165 ^{ab}	5.267 ^{def}	21.232 ^e	1.628 ^{de}	0.909 ^a
Pannonia		12	4.567 ^{bc}	6.065 ^d	4.363 ^{def}	32.038 ^{bcd}	1.339 ^e	0.397 ⁱ
Pannonia		24	5.258 ^{abc}	8.406 ^{bcd}	3.897 ^f	49.036 ^a	1.679 ^{de}	0.600 ^{bcde}
PE19/66		03	5.909 ^{ab}	8.199 ^{bcd}	4.423 ^{def}	21.600 ^{de}	1.600 ^{de}	0.681 ^{bc}
PE19/66		08	6.124 ^a	8.478 ^{bcd}	5.500 ^{cdef}	21.822 ^{de}	1.429 ^e	0.930 ^a
PE19/66		12	5.237 ^{abc}	8.384 ^{bcd}	7.777 ^b	30.304 ^{cde}	1.602 ^{de}	0.452 ^{hi}
PE19/66		24	5.559 ^{abc}	11.689 ^a	3.608 ^f	43.463 ^{ab}	2.047 ^{bcd}	0.522 ^{defg}
Bora	0	03	5.039 ^{ihgfedcba}	9.571 ^{abcd}	1.897 ^{wvutr}	25.550 ^{ljhgfc}	2.075 ^{ijhgfedc}	0.606 ^{vtsrponmlkjih}
Bora	0	08	4.149 ^{ihedcb}	5.192 ^{bcde}	3.396 ^{vvutsrponmlj}	31.254 ^{lkjihgfc}	1.365 ^{lkjihgf}	0.369 ^{BAzyxwu}
Bora	0	12	6.733 ^f	5.906 ^{bcde}	7.908 ^{kjihgfedc}	56.532 ^{eda}	1.908 ^{kjihgfedc}	0.201 ^{CBaz}
Bora	0	24	5.465 ^{hgfedcba}	8.556 ^{abcde}	6.430 ^{srponmlkijhgfedc}	43.983 ^{kiedba}	1.766 ^{kjihgfed}	0.570 ^{vtsrponmlk}
Antonije	0	03	5.890 ^{hgfedcba}	9.475 ^{bcd}	7.236 ^{mkjihgfedc}	32.353 ^{lkjihgfc}	1.597 ^{kjihgfed}	0.426 ^{BAzyxwvutspo}
Antonije	0	08	3.982 ^{ihedcb}	5.760 ^{bcde}	7.868 ^{khgfedc}	34.175 ^{lkjihgfc}	1.513 ^{kjihgfed}	0.479 ^{xwvutsrponm}
Antonije	0	12	5.577 ^{hgfedcba}	9.390 ^{bcd}	3.428 ^{vvutsrponl}	34.292 ^{lkjihgfecb}	1.669 ^{kjihgfed}	0.655 ^{rlkijhg}
Antonije	0	24	4.417 ^{ihgfedcba}	8.781 ^{bcde}	4.160 ^{vvutsrponmlji}	24.430 ^{lkjhgfc}	1.601 ^{kjihgfed}	0.542 ^{xwvutsrponml}
Pannonia	0	03	5.308 ^{ihgfedcba}	10.984 ^{abcd}	3.532 ^{vvutsrponml}	38.336 ^{lkjihgfedcba}	1.872 ^{kjihgfed}	0.488 ^{xwvutsrponml}
Pannonia	0	08	5.046 ^{ihgfedcba}	9.549 ^{abcd}	8.688 ^{hgfedc}	26.499 ^{lkjhgfc}	2.065 ^{ijhgfedc}	0.639 ^{tsrponmlkjih}
Pannonia	0	12	4.719 ^{ihgfedcba}	7.166 ^{bcde}	1.465 ^{wvu}	26.633 ^{lkjhgfc}	1.586 ^{kjihgfed}	0.509 ^{xwvutsrponml}
Pannonia	0	24	5.718 ^{hgfedcba}	8.010 ^{abcde}	6.445 ^{sponmlkijhgfedc}	49.271 ^{iedba}	1.330 ^{lkjihgf}	0.702 ^{nkjihgf}
PE19/66	0	03	6.579 ^{gfa}	8.156 ^{bcde}	8.774 ^{hgfedc}	24.448 ^{lkjhgfc}	1.677 ^{kjihgfed}	0.525 ^{xwvutsrponm}
PE19/66	0	08	5.344 ^{ihgfedcba}	6.150 ^{bcde}	8.441 ^{ihgfedc}	24.204 ^{lkjhgfc}	1.272 ^{lkjih}	0.713 ^{lkjihgfe}
PE19/66	0	12	6.193 ^{hgfedcba}	11.215 ^{abc}	3.453 ^{vvutsrponml}	33.233 ^{lkjihgfc}	1.759 ^{kjihgfed}	0.398 ^{BAzyxwvuts}
PE19/66	0	24	5.918 ^{hgfedcba}	15.344 ^a	3.152 ^{vvutsrponml}	57.884 ^{da}	2.424 ^{gc}	0.399 ^{BAzyxwvuts}
Bora	150	03	5.192 ^{ihgfedcba}	10.713 ^{abcd}	1.087 ^{wv}	19.397 ^{lkjihgfed}	2.072 ^{ijhgfedc}	0.910 ^{gfedcb}
Bora	150	08	4.277 ^{ihgfedcba}	10.785 ^{abcd}	3.434 ^{vvutsrponml}	19.428 ^{lkjihgfed}	2.525 ^{fedc}	1.028 ^{cba}
Bora	150	12	2.674 ^{ihg}	7.175 ^{bcde}	8.872 ^{hgfedc}	21.293 ^{lkjihgfed}	2.683 ^{edc}	0.813 ^{kjihgfed}
Bora	150	24	4.924 ^{ihgfedcba}	7.283 ^{bcde}	2.930 ^{vvutsrpon}	18.761 ^{lkjihgfe}	1.482 ^{kjihgfed}	0.559 ^{vvutsrponml}
Antonije	150	03	3.995 ^{ihgfedcb}	8.893 ^{abcde}	3.106 ^{vvutsrponml}	27.803 ^{lkjihgfedc}	2.247 ^{ihgfedc}	0.705 ^{nmlkijhgf}
Antonije	150	08	4.410 ^{ihgfedcba}	10.449 ^{abcd}	5.164 ^{vutsrponmlkijhg}	30.263 ^{lkjihgfedcb}	2.372 ^{ihgfedc}	0.848 ^{igfedc}
Antonije	150	12	4.187 ^{ihgfedcba}	8.761 ^{abcde}	8.227 ^{ihgfedc}	18.870 ^{lkjihgfe}	2.094 ^{ijhgfedc}	0.576 ^{vvutsrponmlk}
Antonije	150	24	5.252 ^{ihgfedcba}	10.808 ^{abcd}	3.127 ^{vvutsrponml}	25.046 ^{lkjihgfedc}	2.060 ^{ijhgfedc}	0.612 ^{vvutsrponmlkjh}
Pannonia	150	03	5.742 ^{hgfedcba}	9.292 ^{abcd}	5.569 ^{utsrponmlkijhgf}	33.167 ^{lkjihgfedcb}	1.656 ^{kjihgfed}	0.515 ^{vvutsrponml}
Pannonia	150	08	7.829 ^{cba}	11.014 ^{abcd}	2.893 ^{vvutsrpo}	10.785 ^{lkji}	1.409 ^{lkjihgf}	1.218 ^a
Pannonia	150	12	3.376 ^{ihgfe}	4.128 ^{cde}	2.644 ^{vvutsrp}	31.063 ^{lkjihgfedcb}	1.222 ^{lkjihg}	0.292 ^{CBazyx}
Pannonia	150	24	5.461 ^{hgfedcba}	8.891 ^{abcde}	3.839 ^{vvutsrponmlkj}	27.807 ^{lkjihgfedc}	1.629 ^{kjihgfed}	0.510 ^{vvutsrponml}
PE19/66	150	03	5.903 ^{hgfedcba}	9.842 ^{abcd}	1.687 ^{wvut}	16.464 ^{lkjihgf}	1.678 ^{kjihgfed}	0.605 ^{vvutsrponmlkijh}
PE19/66	150	08	5.874 ^{hgfedcba}	12.120 ^{ab}	7.030 ^{onmlkijhgfedc}	16.330 ^{lkjihgf}	2.065 ^{ijhgfedc}	1.093 ^{cba}
PE19/66	150	12	3.574 ^{ihgfed}	6.854 ^{bcde}	9.689 ^{ecb}	24.395 ^{lkjihgfedc}	1.920 ^{kjihgfedc}	0.497 ^{xwvutsrponml}
PE19/66	150	24	4.524 ^{ihgfedcba}	9.428 ^{abcd}	3.682 ^{vvutsrponmlkj}	23.671 ^{lkjihgfedc}	2.088 ^{ijhgfedc}	0.463 ^{yxwvutsrponml}
Bora	300	03	4.119 ^{ihgfedcb}	9.915 ^{abcd}	2.988 ^{vvutsrponm}	18.695 ^{lkjihgfe}	2.421 ^{hgfedc}	0.217 ^{CBzy}
Bora	300	08	4.185 ^{ihgfedcba}	7.674 ^{abcde}	3.164 ^{vvutsrponml}	18.854 ^{lkjihgfe}	1.842 ^{kjihgfed}	0.523 ^{xwvutsrponml}
Bora	300	12	2.947 ^{ihgfe}	9.214 ^{abcd}	3.030 ^{vvutsrponml}	24.869 ^{lkjihgfedc}	3.132 ^{cb}	0.177 ^{CB}
Bora	300	24	4.538 ^{ihgfedcba}	6.881 ^{bcde}	6.418 ^{sponmlkijhgfedc}	21.625 ^{lkjihgfedc}	1.517 ^{kjihgfed}	0.439 ^{Axwvutsrpo}

Antonije 300	03	3.647	ihg fed	9.794	abcd	9.507	fedcb	22.517	lkjihg fed	2.702	dc b	0.386	BAzyxwvut
Antonije 300	08	4.927	ihg fedcba	9.366	abcd	5.162	vvut srponmlkjihg f	20.848	lkjihg fed	1.901	kjihg fedc	0.498	xwvut srponml
Antonije 300	12	4.684	ihg fedcba	8.122	abcde	3.770	vvut srponmlkj	47.805	ihg fedcba	1.734	kjihg fed	0.565	wvut srponmlk
Antonije 300	24	2.957	ihg fe	11.474	abc	5.871	tsrponmlkjihg fed	60.136	cba	3.957	b	0.457	Azyxwvut srponml
Pannonia 300	03	6.297	hg fedcba	7.540	bcde	9.085	g fedc	28.982	lkjihg fedcb	1.205	lkjihg	0.520	xwvut srponml
Pannonia 300	08	6.949	fedcba	11.049	abcd	4.820	vvut srponmlkjihg	29.505	lkjihg fedcb	1.590	kjihg fedc	0.940	fedcb
Pannonia 300	12	3.316	ihg fe	3.791	cde	8.333	ihg fedc	31.589	lkjihg fedcb	1.146	lkji	0.109	C
Pannonia 300	24	4.387	ihg fedcba	8.856	abcde	1.955	vvut	51.951	g fedcba	2.016	ihg fedc	0.592	wvut srponmlkj
PE19/66 300	03	5.194	ihg fedcba	10.763	abcd	0.628	w	15.786	lkjihg f	2.077	ihg fedc	0.660	rponmlkjihg
PE19/66 300	08	6.678	hg fedcba	12.153	ab	2.187	vvut sr	33.277	lkjihg fedcb	1.820	kjihg fed	1.114	ba
PE19/66 300	12	3.538	ihg fed	3.374	de	4.338	vvut srponmlkji	24.449	lkjihg fedc	0.955	lkj	0.378	BAzyxwvu
PE19/66 300	24	4.519	ihg fedcba	7.229	bcde	4.880	vvut srponmlkjihg	32.944	lkjihg fedcb	1.604	kjihg fed	0.386	BAzyxwvut
Bora 450	03	4.413	ihg fedcba	6.955	bcde	10.599	cb	73.418	a	1.585	kjihg fed	0.645	srponmlkji
Bora 450	08	5.729	hg fedcba	4.406	bcde	7.301	lkjihg fedc	10.503	lkj	0.772	lk	0.849	hg fedc
Bora 450	12	4.301	ihg fedcba	7.151	bcde	26.112	a	23.368	lkjihg fedc	1.662	kjihg fed	0.672	okjihg
Bora 450	24	4.293	ihg fedcba	9.974	abcd	7.207	nmlkjihg fedc	12.090	lkjih	2.323	ihg fedc	0.466	yxwvut srpnml
Antonije 450	03	1.427	i	7.761	abcde	3.187	vvut srponml	54.201	fba	5.462	a	0.483	xwvut srponml
Antonije 450	08	7.503	dcba	1.263	e	9.966	dc b	39.588	lkjihg fedcba	0.168	l	1.067	dcba
Antonije 450	12	3.931	ihg fedc	7.501	bcde	5.222	vvut srponmlkjihg fd	24.269	lkjihg fedc	1.911	kjihg fedc	0.202	CBAz
Antonije 450	24	5.177	ihg fedcba	10.473	abcd	4.832	vvut srponmlkjihg	22.010	lkjihg edc	2.021	ihg fedc	0.623	wvut srponmlkjih
Pannonia 450	03	7.962	ba	10.198	abcd	2.894	vvut srpo	17.729	lkjig f	1.281	lkjihg	0.393	BAzyxwvts
Pannonia 450	08	6.247	hg fedcba	9.047	abcde	4.668	vvut srponmlkji h	7.605	lk	1.449	kjihg fe	0.837	jg fedc
Pannonia 450	12	6.552	hg fedcba	9.176	abcd	5.010	vvut srponmlkjihg	49.677	hedcba	1.401	lkjihg f	0.678	rponmlkjihg
Pannonia 450	24	4.544	ihg fedcba	7.868	abcde	3.347	vvut srponml	66.646	ba	1.740	kjihg fed	0.598	urponmlkih
PE19/66 450	03	4.621	ihg fedcba	4.077	cde	6.604	ponmlkjihg fedc	24.010	lkjihg fedc	0.889	lkj	1.089	cba
PE19/66 450	08	8.164	a	5.817	bcde	4.341	vvut srponmlkji	8.715	lk	0.717	lk	1.018	dcba
PE19/66 450	12	5.732	hg fedcba	9.261	abcd	13.628	b	33.281	lkjihg fedcb	1.617	kjihg fed	0.588	wvut srponmlkj
PE19/66 450	24	6.554	hg fedcba	11.100	abcd	2.719	vvut srp	30.509	lkjihg fedcb	1.696	kjihg fed	0.963	edcba

¹⁾ Labels of biochemical parameter: DPPH - DPPH scavenging activity; TPC - Total phenolics content; TFC - Total flavonoids content; PC - Prolin content; GBC - Glicine betain content; FPR - Flavonoides/Phenolics ratio

Table S3. F-test for tolerance indeces based on examined biochemical parameters in black poplar clones on different concentrations of NaCl

Sources of variation	Biochemical parameters ^{*)}					
	DPPHTI	TPCTI	TFCTI	PCTI	GBCTI	FPRTI
Clone (A)	1002.32 **	89.83 **	226.16 **	10499.8 **	166515 **	69.64 **
Salt concentration (B)	432.36 **	88.96 **	171.88 **	4550.9 **	189856 **	139.8 **
Interaction A×B	280.81 **	3.66 **	62.39 **	9834.9 **	40070 **	36.07 **
Time of measurement (R)	1447.97 **	568.38 **	1407.86 **	204640.1 **	4102332 **	31.41 **
Interaction A×R	48.62 **	36.66 **	380.09 **	13665.2 **	7490816 **	127.79 **
Interaction B×R	389.11 **	75.09 **	128.71 **	72255.2 **	9800779 **	188.69 **
Interaction A×B×R	120.42 **	37.72 **	46.68 **	32845.4 **	5569091 **	79.92 **

^{*)} Labels of tolerance indeces based on biochemical parameter: DPPHTI - DPPH scavenging activity tolerance index; TPCTI - Total phenolics content tolerance index; TFCTI - Total flavonoids content tolerance index; PCTI - Prolin content tolerance index; GBCTI - Glicine betain content tolerance index; FPRTI - Flavonoides/Phenolics ratio tolerance index

Table S4. Tukey HSD test for tolerance indices of biochemical parameters in black poplar clones on examined salt concentrations in the first 24 hours

Clone	c(NaCl) (mM)	Time (hours)	Biochemical parameters ^{*)}				
			DPPHTI	TPCTI	TFCTI	PCTI	GBCTI
Bora			1.490 a	0.845 c	1.244 a	1.623 a	0.696 d
Antonije			1.199 b	0.925 b	1.087 b	1.088 c	1.077 a

Pannonia		1.055 c	1.105 a	1.050 b	1.403 b	0.923 b	0.929 b
PE19/66		1.455 a	0.915 b	0.897 c	1.041 d	0.724 c	0.960 b
150		1.446 a	0.920 b	1.193 a	0.971 c	0.687 c	1.280 a
300		0.983 b	0.867 c	1.101 b	1.214 b	0.929 b	1.258 a
450		1.470 a	1.054 a	0.915 c	1.682 a	0.949 a	0.987 b
03		1.276 b	0.868 b	0.888 c	1.159 b	0.998 a	1.195 b
08		1.897 a	1.308 a	1.599 a	0.817 d	0.703 d	1.261 a
12		0.952 d	0.721 c	0.800 d	2.249 a	0.881 b	1.184 b
24		1.073 c	0.892 b	0.991 b	0.930 c	0.838 c	1.058 c
Bora	150	2.010 a	0.840 de	1.455 a	0.802 i	0.546 k	1.713 a
Bora	300	0.843 i	0.774 e	1.275 b	0.998 g	0.567 j	1.670 a
Bora	450	1.617 c	0.920 cd	1.001 de	3.069 a	0.974 e	0.894 de
Antonije	150	1.406 d	0.932 cd	1.252 b	1.059 f	0.830 f	1.300 bc
Antonije	300	0.953 h	0.841 de	1.231 b	1.110 e	1.290 a	1.447 b
Antonije	450	1.240 e	1.001 bc	0.779 f	1.096 e	1.111 b	1.406 b
Pannonia	150	1.101 g	1.076 b	1.040 cd	0.926 h	0.751 g	0.919 de
Pannonia	300	0.922 hi	1.008 bc	0.987 de	2.032 b	1.027 c	0.944 d
Pannonia	450	1.141 fg	1.230 a	1.123 c	1.252 d	0.992 d	0.923 de
PE19/66	150	1.270 e	0.835 de	1.023 d	1.096 e	0.623 i	1.186 c
PE19/66	300	1.214 ef	0.844 de	0.910 e	0.715 j	0.831 f	0.970 d
PE19/66	450	1.881 b	1.066 b	0.757 f	1.311 c	0.718 h	0.724 e
Bora	03	0.993 g	0.908 ef	1.164 d	2.579 b	1.455 b	1.095 cdef
Bora	08	2.763 a	1.140 d	1.978 a	1.364 f	0.520 m	1.812 b
Bora	12	1.347 e	0.491 j	0.892 f	1.602 e	0.410 o	1.770 b
Bora	24	0.856 hi	0.839 fgh	0.941 ef	0.947 j	0.398 p	1.026 def
Antonije	03	1.233 f	0.513 j	0.930 ef	0.701 l	1.077 d	2.173 a
Antonije	08	1.677 c	1.410 a	1.220 cd	0.860 k	0.885 f	0.978 fg
Antonije	12	0.741 j	0.765 hi	0.904 f	1.685 d	0.884 g	1.197 cd
Antonije	24	1.147 f	1.010 e	1.296 c	1.108 h	1.463 a	1.189 cd
Pannonia	03	0.849 hi	1.256 c	0.871 f	0.992 i	0.695 k	0.725 h
Pannonia	08	1.637 c	1.389 ab	1.567 b	0.510 n	0.602 l	1.049 cdef
Pannonia	12	0.798 ij	0.936 ef	0.748 g	3.638 a	1.406 c	0.770 h
Pannonia	24	0.934 gh	0.839 fgh	1.014 e	0.473 o	0.990 e	1.172 cde
PE19/66	03	2.031 b	0.796 ghi	0.587 i	0.364 p	0.767 j	0.787 h
PE19/66	08	1.509 d	1.292 bc	1.631 b	0.535 m	0.803 i	1.206 c
PE19/66	12	0.924 gh	0.691 i	0.655 gh	2.070 c	0.824 h	0.999 ef
PE19/66	24	1.356 e	0.879 fg	0.713 g	1.193 g	0.502 n	0.847 gh
150	03	1.417 b	0.922 cd	0.974 cd	0.534 k	0.789 f	1.099 efg
150	08	2.213 a	1.197 b	2.062 a	0.715 i	0.647 i	1.722 a
150	12	1.129 d	0.610 g	0.756 e	1.879 c	0.707 h	1.314 bc
150	24	1.026 e	0.952 c	0.979 cd	0.755 h	0.606 j	0.983 g
300	03	0.977 ef	0.853 de	0.947 d	1.115 e	0.707 h	1.215 cde
300	08	1.488 b	1.218 b	1.816 b	0.611 j	0.925 e	1.446 b
300	12	0.580 g	0.638 g	0.697 e	2.038 b	0.939 d	1.165 def
300	24	0.886 f	0.758 f	0.944 d	1.091 f	1.144 b	1.205 cdef
450	03	1.435 b	0.830 ef	0.744 e	1.828 d	1.498 a	1.272 cd
450	08	1.990 a	1.508 a	0.919 d	1.127 e	0.535 k	0.617 h
450	12	1.147 d	0.914 cde	0.946 d	2.829 a	0.997 c	1.072 fg
450	24	1.308 c	0.965 c	1.050 c	0.945 g	0.764 g	0.986 g

*) Labels of tolerance indeces based on biochemical parameter: DPPHTI - DPPH scavenging activity tolerance index; TPCTI - Total phenolics content tolerance index; TFCTI - Total flavonoids content

tolerance index; PCTI - Prolin content tolerance index; GBCTI - Glicine betain content tolerance index; FPRTI - Flavonoides/Phenolics ratio tolerance index

Table S5. Tukey HSD test analyses of expression data in different black poplar clones

Clone	Treatment	Time	<i>PtP5CS</i>		<i>PtGRAS17</i>		<i>PtGRAS16</i>		<i>PtSOS1</i>		<i>PtDREB2</i>	
B-229	150 mM	3h	0.125	a	1.000	e	0.028	i	0.230	b	0.462	b
B-229	150 mM	8h	0.325	a	1.000	e	0.057	i	0.652	b	0.574	b
B-229	150 mM	24h	0.184	a	1.000	e	0.018	i	0.181	b	0.665	b
B-229	300 mM	3h	1.097	a	1.000	e	0.019	i	0.191	b	0.170	b
B-229	300 mM	8h	0.147	a	1.000	e	0.127	i	0.748	b	0.182	b
B-229	300 mM	24h	0.213	a	1.000	e	0.062	i	0.662	b	0.179	b
B-229	450 mM	3h	0.113	a	1.000	e	0.014	i	0.509	b	0.224	b
B-229	450 mM	8h	1.000	a	1.000	e	1.000	i	1.000	b	1.000	b
B-229	450 mM	24h	0.924	a	1.000	e	0.051	i	0.402	b	0.414	b
182/81	150 mM	3h	1.161	a	17.13	b	9.239	efghi	4.066	b	0.526	b
182/81	150 mM	8h	0.534	a	0.053	e	2.178	i	2.615	b	0.155	b
182/81	150 mM	24h	3.260	a	0.591	e	2.320	i	35.273	b	0.051	b
182/81	300 mM	3h	1.364	a	26.69	a	1.969	i	2.774	b	0.193	b
182/81	300 mM	8h	2.187	a	1.000	e	63.108	d	28.886	b	1.662	b
182/81	300 mM	24h	0.602	a	0.060	e	0.280	i	1.546	b	0.546	b
182/81	450 mM	3h	1.575	a	1.325	e	0.927	i	6.950	b	2.269	b
182/81	450 mM	8h	2.530	a	5.264	cde	152.45	b	80.71	b	10.12	b
182/81	450 mM	24h	1.287	a	0.157	e	5.530	fghi	4.016	b	2.217	b
M1	150 mM	3h	1.225	a	3.438	e	1.536	i	1.235	b	0.912	b
M1	150 mM	8h	3.650	a	1.171	e	13.521	efghi	0.829	b	0.107	b
M1	150 mM	24h	4.362	a	16.66	b	2.589	hi	4.684	b	1.046	b
M1	300 mM	3h	3.060	a	2.261	e	4.091	ghi	1.056	b	0.132	b
M1	300 mM	8h	2.245	a	0.585	e	5.718	fghi	1.186	b	0.032	b
M1	300 mM	24h	6.742	a	14.56	bc	1.453	i	7.140	b	4.506	b
M1	450 mM	3h	4.218	a	12.54	bcd	5.668	fghi	6.132	b	2.136	b
M1	450 mM	8h	3.804	a	5.523	de	1.319	i	3.659	b	2.366	b
M1	450 mM	24h	2.602	a	4.984	de	1.994	i	1.808	b	1.778	b
PE19/66	150	3h	3.583	a	1.251	e	24.095	ef	3.125	b	1.880	b
PE19/66	150	8h	7.772	a	3.611	e	220.28	a	12.212	b	1.629	b
PE19/66	n150	24h	2.628	a	0.691	e	52.964	d	2.895	b	0.384	b
PE19/66	n300	3h	14.989	a	1.314	e	26.530	e	25.347	b	3.227	b
PE19/66	n300	8h	8.672	a	2.597	e	54.378	d	7.546	b	1.518	b
PE19/66	n300	24h	2.880	a	1.205	e	21.415	efg	3.330	b	1.278	b
PE19/66	n450	3h	5.352	a	1.046	e	17.593	efghi	2.027	b	1.062	b
PE19/66	n450	8h	9.022	a	2.510	e	21.108	egfh	2.333	b	1.354	b
PE19/66	n450	24h	2.701	a	1.254	e	100.77	c	2.450	b	1.295	b

Tukey HSD test analyses of expression data performed using $2^{-\Delta\Delta C_t}$ value distribution of *PtP5CS1*, *PtSOS1*, *PtGRAS16*, *PtGRAS17*, *PtDREB2* genes induced by salt (NaCl) treatment at various concentrations (150 mM, 300 mM and 450 mM) and differing treatment duration (3h, 8h, 24h) in poplar clones (Bora-B229, Antonije-182/81, Pannonia-M1 and PE19/66). Treatments that have the same letter belong to the same homogenous group at the level of $\alpha=0.05$ (the same letter stands for

the treatments that are not statistically significant). Number 1.000 stands for a missing value. These tests were performed in STATISTICA 13 software [56].