

Supplementary data legends

Table S1. Result of principal component analysis among studied traits in Ginkgo seedlings under low NaCl stress. An asterisk indicates significant differences at $P < 0.05$. Pn, photosynthetic rate; Tr, transpiration rate; Ci, intercellular CO₂ concentration ;Gs, stomatal conductance;ETR, photosynthetic electron transport rate;Fo, minimal fluorescence; NPQ, non-photochemical quenching coefficient; Y(II),effective photochemical quantum yield of PSII; qP, photochemical quenching coefficient; Fv/Fm, potential efficiency of primary conversion of light energy of PSII;MDA, malonic dialdehyde; EL, electrolyte leakage; POD, peroxidase; SOD, superoxide dismutase; Pro, proline content; SP, soluble protein content; SS,soluble sugar content; RWC, relative water content ; Fla, flavonoid content; Chla,Chla content; Chlb,Chlb content; Chla+Chlb,Chla+Chlb content.

Principal component		1	2	3	4	5	6
Eigenvector of each trait	Pn	0.23193	0.26011	-0.20303	-0.1272	-0.11107	0.31139
	Tr	0.33543	0.2322	-0.05459	0.0927	0.12764	0.00662
	Ci	0.32533	0.18896	0.0649	0.06309	0.11053	-0.32882
	Gs	0.32483	0.1349	-0.06068	-0.01096	0.26774	-0.19555
	ETR	0.14363	-0.19679	0.30137	-0.00229	-0.27638	0.21296
	Fo	0.10982	0.10169	0.15202	0.39665	0.30433	0.20886
	NPQ	-0.1292	-0.02673	-0.38293	0.0286	-0.03472	-0.12506
	Y(II)	0.19852	-0.19715	0.37805	0.04772	-0.1379	0.03962
	qP	0.0892	-0.20917	0.40797	0.08898	-0.12063	0.15817
	Fv/Fm	0.29166	-0.02435	-0.09103	-0.24499	-0.3227	0.25722
	MDA	0.04473	0.22043	-0.23208	0.20641	-0.41125	0.32576
	EL	-0.20983	-0.04506	0.0617	0.45283	-0.15072	-0.19164
	POD	-0.06152	-0.12482	-0.02921	0.41229	0.36229	0.44653
	SOD	0.30785	0.0454	-0.12811	0.26236	0.01373	-0.03598
	Pro	0.13344	0.19511	0.25552	0.12576	-0.27015	-0.23287
	SP	0.21177	-0.25624	-0.01155	-0.08406	0.28445	0.14631
	SS	0.07218	-0.28963	-0.12681	-0.31658	0.19509	0.16159
	RWC	0.33339	0.11647	0.15212	-0.14867	0.09965	-0.07075
	Fla	0.0835	-0.39711	0.01928	-0.01238	6.52E-04	-0.29108
	Chla	-0.20431	0.24902	0.27528	-0.23461	0.16505	0.10914
	Chlb	-0.20489	0.248	0.27868	-0.23448	0.16047	0.10077
	Chla+Chlb	-0.16197	0.37534	0.19053	-0.02981	0.03736	0.04688
Eigenvalue		5.33936	4.69171	3.32796	2.6529	1.38301	1.03533
Contribution rate		24.2698	21.32595	15.1271	12.05865	6.28639	4.70606

Table S2. Result of principal component analysis among studied traits in Ginkgo seedlings under medium NaCl stress. An asterisk indicates significant differences at $P < 0.05$. Pn, photosynthetic rate; Tr, transpiration rate;Ci, intercellular CO₂ concentration ;Gs, stomatal conductance; ETR, photosynthetic electron transport rate;Fo, minimal fluorescence; NPQ, non-photochemical quenching coefficient; Y(II),effective photochemical quantum yield of PSII;qP, photochemical quenching coefficient; Fv/Fm, potential efficiency of primary conversion of light

energy of PSII;MDA, malonic dialdehyde; EL, electrolyte leakage;POD, peroxidase; SOD, superoxide dismutase; Pro, free proline content; SP, soluble protein content; SS, soluble sugar content; RWC, relative water content ; Fla, flavonoid content; Chla, Chla content; Chlb, Chlb content;Chla+Chlb,Chla+Chlb content.

Principal component		1	2	3	4	5	6
Eigenvector of each trait	Pn	0.22622	0.26927	-0.05587	0.09879	0.3392	-0.17321
	Tr	0.21349	0.34123	-0.00975	0.23332	-0.0286	-0.10509
	Ci	0.191	0.32456	0.07908	0.16585	-0.24284	-0.07762
	Gs	0.11148	0.29461	0.20501	0.20966	-0.16988	0.06038
	ETR	0.22467	-0.19379	0.10969	0.08932	0.13492	-0.33129
	Fo	-0.09815	0.24549	0.31294	0.19034	0.17706	0.25639
	NPQ	-0.12022	0.33312	0.01161	-0.20579	0.01565	-0.21203
	Y(II)	0.06344	-0.30577	0.03506	0.45279	0.14797	-0.04899
	qP	-0.03291	-0.24444	0.24737	0.41575	0.12988	-0.0375
	Fv/Fm	0.18713	-0.20159	-0.33169	0.29625	0.05728	0.06116
	MDA	0.09605	-0.2014	0.08315	-0.04751	-0.35671	0.52295
	EL	-0.05428	-0.17099	-0.01617	-0.26822	-0.24216	-0.17949
	POD	-0.15742	0.11317	-0.28164	0.0184	0.42995	0.3081
	SOD	0.10194	-3.41105	-0.49666	0.05684	-0.01087	0.21739
	Pro	0.00258	0.08624	0.39614	-0.0378	0.03249	0.00258
	SP	-0.33045	-0.01031	-0.00732	-0.12045	0.39053	-0.33045
	SS	-0.25453	-0.18308	0.26012	0.17216	-0.05588	-0.25453
	RWC	-0.06235	0.25577	-0.2335	0.27451	-0.18496	-0.06235
	Fla	-0.34747	0.15174	0.06164	0.03908	0.08168	-0.34747
	Chla	0.3357	-0.03591	0.16527	-0.23192	0.24873	0.3357
	Chlb	0.34235	-0.05229	0.14618	-0.19553	0.27033	0.34235
	Chla+Chlb	0.40472	0.01098	0.03398	-0.1411	0.03276	0.40472
Eigenvalue		5.38736	4.66933	3.02717	2.2413	1.67456	1.3268
Contribution rate(%)		24.48802	21.22423	13.75988	10.18773	7.61163	6.03089

Table S3. Result of principal component analysis among studied traits in Ginkgo seedlings under high NaCl stress. An asterisk indicates significant differences at $P < 0.05$. Pn,photosynthetic rate;Tr,transpiration rate;Ci,intercellular CO₂ concentration ;Gs,stomatal conductance;ETR,photosynthetic electron transport rate;Fo,minimal fluorescence;NPQ,non-photochemical quenching coefficient;Y(II),effective photochemical quantum yield of PSII;qP,photochemical quenching coefficient;Fv/Fm, potential efficiency of primary conversion of light energy of PSII;MDA, malonic dialdehyde; EL,electrolyte leakage;POD, peroxidase; SOD, superoxide dismutase; Pro,free proline;SP,soluble protein content;SS,soluble sugar content;RWC, relative water content ; Fla,flavonoid content;Chla,Chla content;Chlb,Chlb content;Chla+Chlb,Chla+Chlb content.

Principal component		1	2	3	4	5	6
	Pn	0.29432	0.21464	0.10922	0.04478	-0.18935	-0.20122
	Tr	0.26741	0.23975	0.06651	0.05787	-0.33519	0.02459
	Ci	-0.06145	-0.1576	0.29941	0.23938	-0.37922	0.23322
	Gs	0.18653	0.12396	0.34186	0.25663	-0.17649	-0.00624

Eigenvector of eachtrait	ETR	0.27942	0.23327	0.04256	-0.0579	0.19668	0.2612
	Fo	0.20268	-0.07527	0.23797	-0.21237	0.28276	-0.38905
	NPQ	-0.2456	-0.11437	0.34252	0.14602	-0.00658	-0.11099
	Y(II)	0.27138	0.19081	0.05999	-0.04877	0.19413	0.38904
	qP	0.21943	-0.05045	0.25237	-0.13846	0.39003	0.08083
	Fv/Fm	0.17015	0.28355	-0.15242	0.15055	-0.10295	0.32778
	MDA	-0.16431	-0.23941	0.10936	-0.20262	-0.05319	0.42608
	EL	-0.03997	-0.23429	0.23519	-0.36873	-0.20585	0.15582
	POD	-0.14126	0.28752	0.0454	-0.34358	0.22648	0.20745
	SOD	-0.05013	0.34474	0.14777	-0.23457	-0.20991	-0.05677
	Pro	-0.06539	-0.22605	-0.1893	0.31888	0.19273	0.33153
	SP	-0.25652	0.27501	-0.07197	0.12996	0.06178	0.00659
	SS	-0.1771	0.27487	-0.31348	0.1244	0.02707	-0.15635
	RWC	0.07157	-0.01694	0.29785	0.37395	0.37102	-0.09565
	Fla	-0.16692	0.15288	0.32463	0.31124	0.09593	0.10569
	Chla	0.29447	-0.21586	-0.20917	0.12189	0.00813	-0.00862
	Chlb	0.29615	-0.21515	-0.20523	0.12238	0.00669	-0.00137
	Chla+Chlb	0.33639	-0.17661	-0.02065	-0.08257	-0.16892	-0.01941
Eigenvalue		6.2559	4.84216	2.64188	2.12202	1.76703	1.44108
Contributionrate(%)		28.43591	22.00981	12.00853	9.64555	8.03195	6.55037