

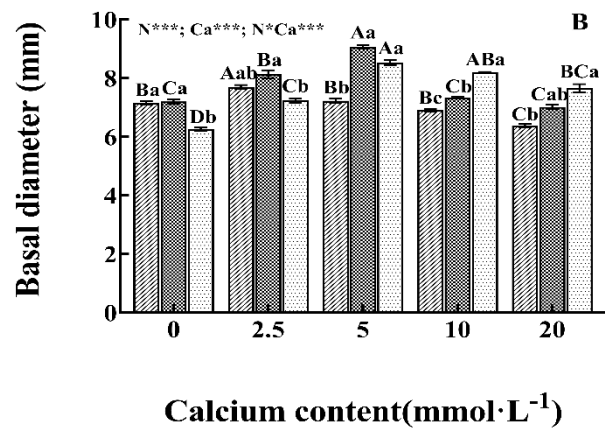
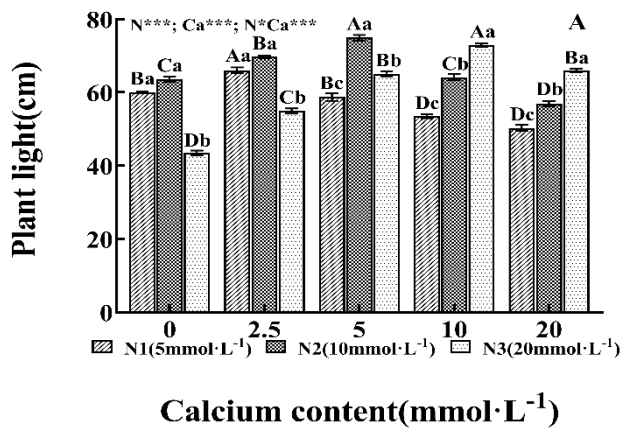
Table S1. Reaction primers and conditions.

Gene	Primer Name	Sequence(5'-3')	Length of amplicon	Thermal profile
1	1-gene5159-F	TATCTCATCCACATCAATCC	179	95°C for 3 min × 1 cycle;
	1-gene5159-R	ACAACTTTTCACCTCTTTCTG		95°C for 30s, 60°C for 30s,
2	2-gene32319-F	TCTCTCATAAATGGCCAAAC	183	72°C for 40s × 35 cycle;
	2-gene32319-R	GAAGATTTTGAAGGTTCCAG		95°C for 3 min × 1 cycle;
EF1 α	F	ATTGACAGGCGGTCTGGTAAGGAA	Unknown	95°C for 30s, 60°C for 30s,
	R	AAACGACCAAGTGGAGGATACGCT		72°C for 40s × 35 cycle;

Table S2. Statistical table of sequencing data of "Liaohu No.1" Poplar seedlings.

Sample	Raw reads	Raw bases	Clean reads	Clean bases	Error rate(%)	Q20(%)	Q30(%)	GC content(%)
L1	59036760	8914550760	58429284	8726096162	0.0237	98.56	95.42	44.54
L2	53999582	8153936882	53655110	8013094093	0.0232	98.78	96	44.47
L3	62357448	9415974648	61847128	9219362589	0.0232	98.78	96.04	44.63
O1	54081734	8166341834	53709898	8017999731	0.0231	98.8	96.07	44.56
O2	53709182	8110086482	53341884	7976579194	0.0235	98.65	95.63	44.08
O3	56037722	8461696022	55631348	8316868333	0.0232	98.75	95.96	44.58
H1	57243706	8643799606	56752418	8480356448	0.0233	98.71	95.82	44.95
H2	53093868	8017174068	52776236	7897178758	0.023	98.85	96.19	44.73
H3	64054078	9672165778	63511838	9468851386	0.0232	98.75	95.96	44.46

(a) Sample: sample description; (b) Raw reads: the total number of entries in the original sequencing data (reads represent sequencing read segments, and one reads is one); (c) Raw bases: the total data of original sequencing (the number of raw reads multiplied by reads length); (d) Clean reads: the total number of items of sequencing data after quality control; (e) Clean bases: the total sequencing data after quality control (number of clean reads multiplied by reads length); (f) Error rate (%): the average error rate of sequencing bases corresponding to quality control data is generally less than 0.1%; (g) Q20(%), Q30(%): Q20 and Q30 respectively refer to the percentage of bases with sequencing quality above 99% and 99.9% in total bases, generally Q20 in more than 85%, Q30 in more than 80%; (h) GC content (%): the percentage of the total G and C bases corresponding to the quality control data in the total bases



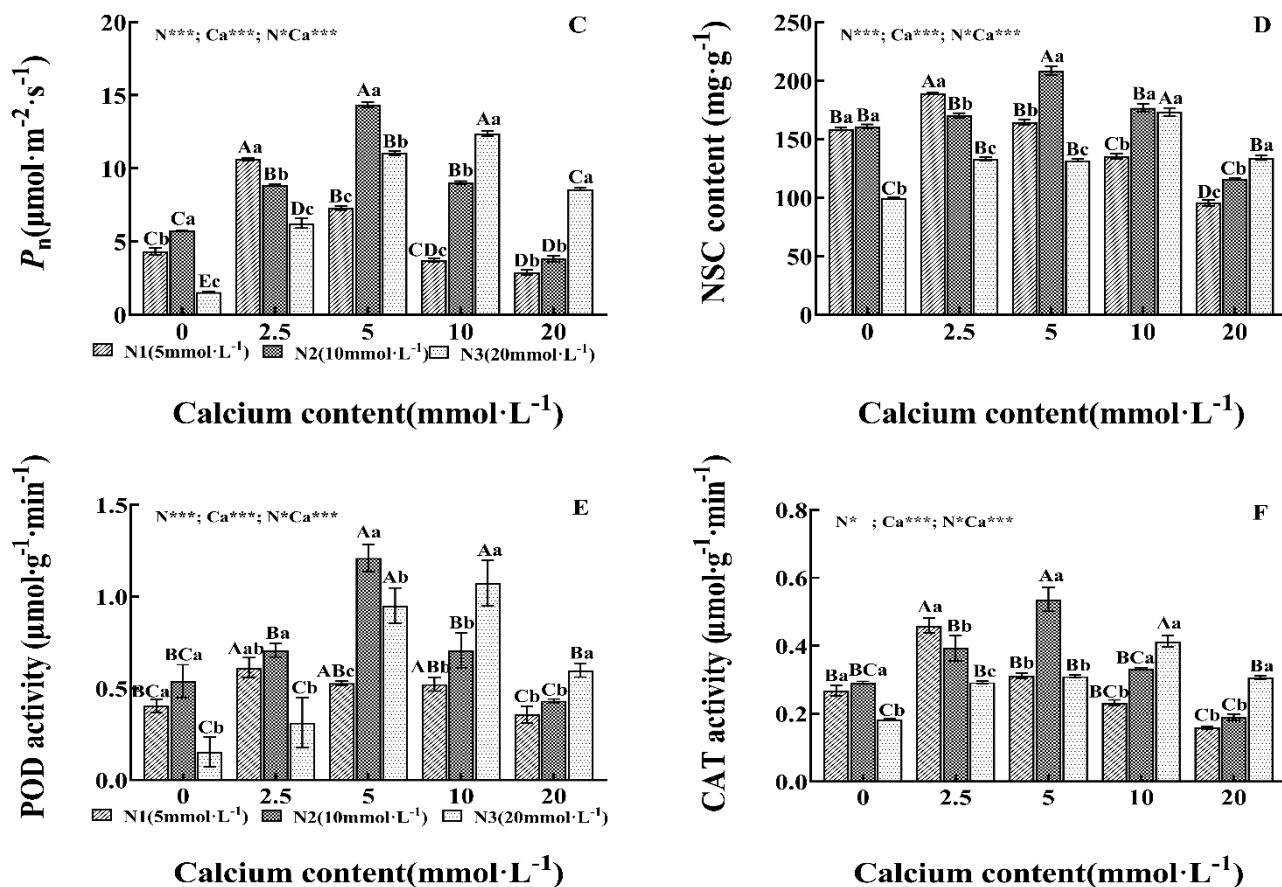


Figure S1. Effects of combined application of nitrogen and calcium on growth and physiological characteristics of poplar seedlings

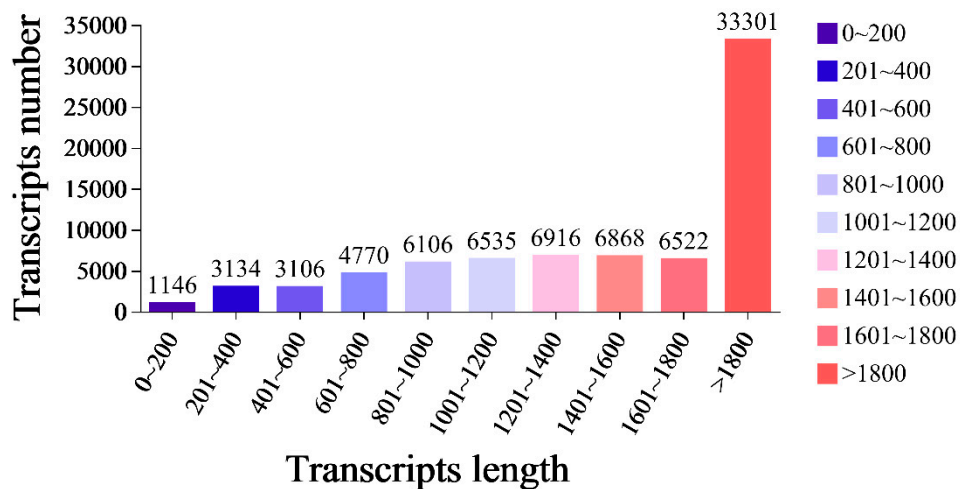


Figure S2. Transcript length distribution bar graph.

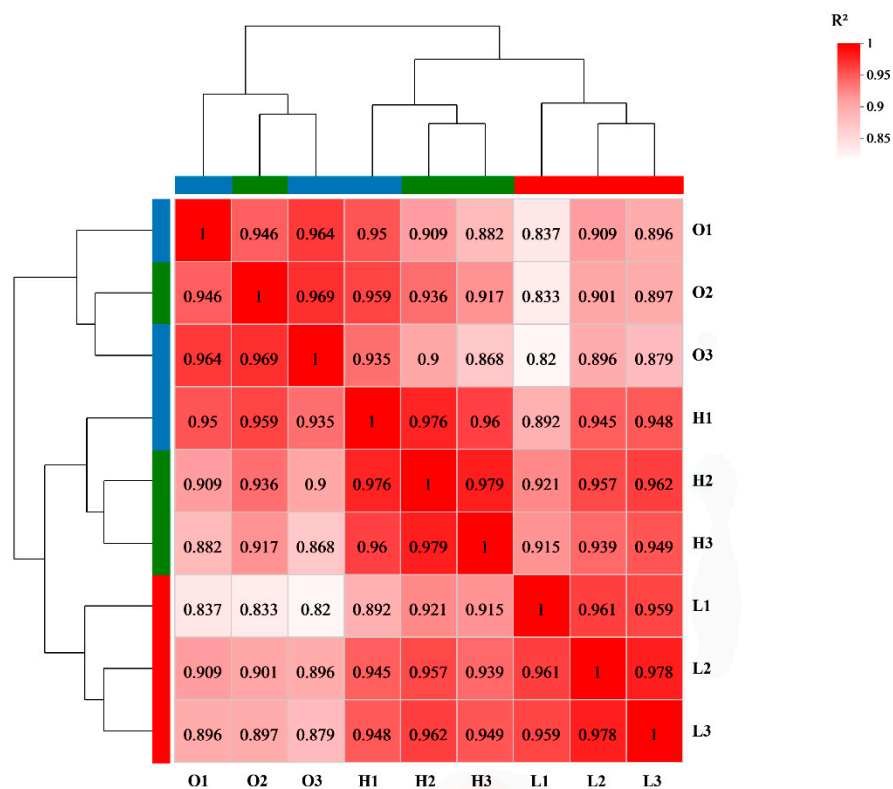


Figure S3. Pearson correlations between all samples

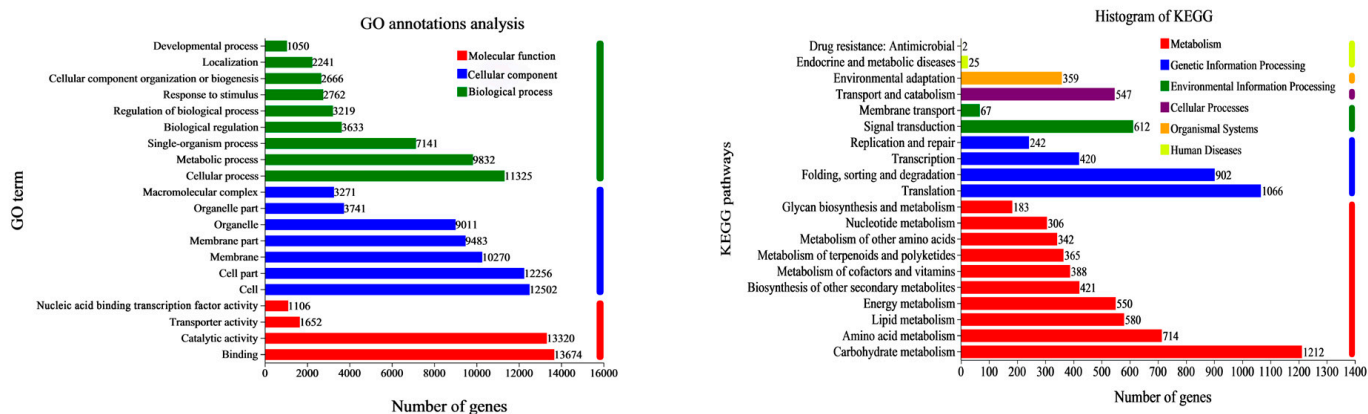


Figure S4. GO and KEGG annotation classification statistics