

Text S2: the list of abbreviation

Number	Abbreviated	Meaning
1	Pb	lead
2	SOD	superoxide dismutase
3	AT	catalase
4	APX	ascorbate peroxidase
5	POD	peroxidase
6	GR	glutathione reductase
7	GSH	glutathione
8	YP	30 days-young period
9	GP	60 days-growth period
10	MP	90 days-maturity period
11	OP	120 days-old period
12	AP	150 days-apoptosis period
13	MDA	malondialdehyde
14	HCAs	hydroxycinnamic acid
15	ROS	reactive oxygen
16	PSII	reaction center of photosystem II