

**Abscisic acid-enhanced starch accumulation of bioenergy crop
duckweed (*Spirodela polyrrhiza*)**

Xuezhi Wang¹ · Weihua Cui^{1,2} · Weiwu. Hu^{1,3} · Chuanping Feng¹

✉ Corresponding author: Weihua Cui, Tel: +86 10 82322281; fax: +86 10 82321081.

E-mail addresses: cuiwh@cugb.edu.cn

¹ School of Water Resources and Environment, China University of Geosciences (Beijing), Beijing 100083, China

² State Key Laboratory of Biogeology and Geology, China University of Geosciences (Beijing), Beijing 100083, China

³ The Journal Center, China University of Geosciences (Beijing), Beijing 100083, China

Table S1 Correlation coefficients of AGPase activity and *APL2* expression in 0, 1.0×10^{-4} , and 1.0×10^{-2} $\text{mg} \cdot \text{L}^{-1}$ ABA media.

Time (d)	ABA concentration (mg/L)					
	0		1.0×10^{-4}		1.0×10^{-2}	
	<i>APL2</i> relative expression	AGPase activity (U/g)	<i>APL2</i> relative expression	AGPase activity (U/g)	<i>APL2</i> relative expression	AGPase activity (U/g)
2	0.00578	1344.2	0.03200	1496.1	0.09078	1566.5
4	0.01138	1593.2	0.02434	1863.0	0.08672	2214.6
6	0.05603	1837.6	0.12540	2391.1	0.13865	2967.5
8	0.05100	2148.3	0.12260	2738.2	0.13758	3761.7
10	0.06680	2229.5	0.14429	3162.9	0.17895	4076.2
12	0.05601	2232.8	0.13898	3106.0	0.17266	4017.2
Correlation coefficients (R)	0.91		0.93		0.93	

Table S2 Correlation coefficients of starch content and AGPase activity in 0, 1.0×10^{-4} , and 1.0×10^{-2} $\text{mg} \cdot \text{L}^{-1}$ ABA media.

Time (d)	ABA concentration (mg/L)					
	0		1.0×10^{-4}		1.0×10^{-2}	
	AGPase activity (U/g)	Starch content (% dry weight)	AGPase activity (U/g)	Starch content (% dry weight)	AGPase activity (U/g)	Starch content (% dry weight)
2	1344.2	8.4	1496.1	8.8	1566.5	8.2
4	1593.2	10.0	1863.0	10.1	2214.6	15.5
6	1837.6	10.5	2391.1	14.0	2967.5	19.5
8	2148.3	11.3	2738.2	15.1	3761.7	21.5
10	2229.5	12.8	3162.9	16.8	4076.2	21.7
12	2232.8	12.8	3106.0	17.0	4017.2	21.8
Correlation coefficients (R)	0.96		0.99		0.95	