Table S3. The multiple linear regression model for net photosynthesis rate, dried tuberous root yield, aqueous extract content of tuberous roots and polysaccharide content of tuberous roots.

Dependent	Predictors	Coefficients	S. E.	P value	VIF	AIC	R ² adj	P value	DF
variable									
Pn	Intercept	-11.594	5.48	0.05		-3.76	0.73	< 0.001	14
	Gs	53.32	13.11	< 0.001	1.70				
	SLW	216.87	86.89	0.02	1.38				
	VPDL	-4.51	3.13	0.04	1.59				
AE	Intercept	39.36	1.20	< 0.001		-10.15	0.65	< 0.001	14
	Pn	39.6	0.22	0.28	4.31				
	Chl a	-123.6	59.5	0.02	2.91				
	Gs	7.06	13.76	0.03	2.37				
PS	Intercept	-9.24	4.00	0.04		38.76	0.76	< 0.001	15
	Pn	-7.31	0.54	< 0.01	1.65				
	SLW	884.58	316.60	0.01	1.65				

Note: VIF less than 5 indicates no multicollinearity between predictors. The table shows unstandardized parameter estimates. The full model for Pn was Pn ~ Gs + Chl a + Chl b + SLW + VPD, and the best model was Pn ~ Gs + SLW + VPD; the full model for DY was DY ~ Pn + Gs + Tr + WUE + Chl a + Chl b, and the best model was DY ~ Pn; the full model for AE was AE ~ Pn + Gs + Tr + WUE + Chl a + Chl b + SLW, and the best model was AE ~ Chl a + Chl b + SLW; the full model for PS was PS ~ Pn + Gs + Tr + WUE + Chl a + Chl b + SLW; the full model for PS was PS ~ Pn + Gs + Tr + WUE + Chl a + Chl b + SLW, and the best model was Ps ~ Chl a + Chl b + Gs. Abbreviations: Pn, leaf net photosynthesis rate; Gs, leaf stomatal conductance; SLW, specific leaf weight; VPD_L, leaf-air vapor pressure deficit; DY, dried tuberous root yield; AE, aqueous extract content of tuberous roots; Chlorophyll a content per unit leaf area; PS, polysaccharide content of tuberous roots; DF, degree of freedom; AIC, Akaike information criterion.