

Supplementary Material

Tab. S1 - Estimation of multiple linear regression coefficients with dummy variables for photosynthetic pigments.

Pigment	Parameter	Estimated coefficient	Standard error	95% Lower CI	95% Upper CI	VIF
Chlorophyll <i>a</i>	Constant	1.295	0.023	1.249	1.341	–
	Species (<i>Fagus sylvatica</i>)	0.247	0.023	0.201	0.292	1
	Ontogenetic stage (mature)	–0.014	0.023	–0.060	0.032	1
	Day 1 (vs Day 10)	–0.035	0.039	–0.114	0.044	1.5
Chlorophyll <i>b</i>	Constant	0.526	0.013	0.499	0.553	–
	Species (<i>Fagus sylvatica</i>)	0.091	0.013	0.064	0.117	1
	Ontogenetic stage (mature)	0.010	0.013	–0.016	0.037	1
	Day 1 (vs Day 10)	–0.034	0.023	–0.081	0.012	1.5
Chlorophyll <i>a/b</i> ratio	Constant	2.490	0.030	2.430	2.550	–
	Species (<i>Fagus sylvatica</i>)	0.019	0.03	–0.041	0.079	1
	Ontogenetic stage (mature)	–0.099	0.03	–0.159	–0.039	1
	Day 1 (vs Day 10)	0.113	0.052	0.009	0.217	1.5
Carotenoids	Constant	1.860	0.027	1.805	1.915	–
	Species (<i>Fagus sylvatica</i>)	0.371	0.027	0.316	0.426	1
	Ontogenetic stage (mature)	–0.006	0.027	–0.061	0.049	1
	Day 1 (vs Day 10)	–0.005	0.047	–0.100	0.09	1.5

Tab. S2 - Estimation of multiple linear regression coefficients using dummy variables for the effective quantum yield of photosystem II.

Parameter	Estimated coefficient	Standard error	95% Lower CI	95% Upper CI	VIF
Constant	0.437	0.007	0.424	0.450	-
Species (<i>Fagus sylvatica</i>)	−0.021	0.007	−0.034	−0.008	1
Ontogenetic stage (mature)	−0.015	0.007	−0.028	−0.002	1
Day 1 (vs. Day 10)	−0.042	0.013	−0.068	−0.015	1.6

Tab. S3 – Estimation of multiple linear regression coefficients with dummy variables for antioxidant compounds.

Characteristics	Parameter	Estimated coefficient	Standard error	95% Lower CI	95% Upper CI	VIF
Catalase activity	Constant	1.027	0.007	1.013	1.042	
	Species (<i>Fagus sylvatica</i>)	-0.098	0.007	-0.112	-0.083	1.0
	Ontogenetic stage (mature)	-0.195	0.007	-0.209	-0.180	1.0
	Day 1 (vs Day 10)	-0.028	0.012	-0.053	-0.003	1.5
Total phenolic content	Constant	2.297	0.023	2.250	2.344	
	Species (<i>Fagus sylvatica</i>)	-0.088	0.023	-0.135	-0.041	1.0
	Ontogenetic stage (mature)	-0.075	0.023	-0.123	-0.028	1.0
	Day 1 (vs Day 10)	0.255	0.040	0.174	0.337	1.5