

SUPPLEMENTARY MATERIAL

Table S1 ANOVA results after experiment testing for the effect of time on the photosynthetic efficiency (α_{ETR}), maximal electron transport rate (ETR_{MAX}), saturation of irradiance (Ek_{ETR}), maximal quantum yield (F_v/F_m) and maximal non-photochemical quenching (NPQ_{MAX}) of *Lessonia spicata*. (**) $p < 0.05$

Variables		df	MS	F	p
α_{ETR}	<i>Time</i>	11	0.038642	11.153	**
	<i>Res</i>	24	0.003465		
ETR_{MAX}	<i>Time</i>	11	1110.6	4.2235	**
	<i>Res</i>	24	263.0		
Ek_{ETR}	<i>Time</i>	11	8019.5	4.8580	**
	<i>Res</i>	24	1650.8		
F_v/F_m	<i>Time</i>	11	0.00335	9.24	**
	<i>Res</i>	24	0.00036		
NPQ_{MAX}	<i>Time</i>	11	1.1364	5.694	**
	<i>Res</i>	24	0.1996		

Res: Residual

Table S2 ANOVA results after experiment testing for the effect of time on the chlorophyll *a*, chlorophyll *c*, total carotenoids, phenolic content, and antioxidant capacity of *Lessonia spicata*. (**) $p < 0.05$

Variables	<i>df</i>	<i>MS</i>	<i>F</i>	<i>p</i>
<i>Chlorophyll a</i> <i>Time</i>	11	0.12760	3.713	**
<i>Res</i>	24	0.03436		
<i>Chlorophyll c</i> <i>Time</i>	11	0.000731	3.402	**
<i>Res</i>	24	0.000215		
<i>Total Carotenoids</i> <i>Time</i>	11	0.06418	3.120	**
<i>Res</i>	24	0.02057		
<i>Phen. Cont.</i> <i>Time</i>	11	35.544	10.3145	**
<i>Res</i>	24	3.446		
<i>TEAC (DPPH)</i> <i>Time</i>	11	23.038	4.9743	**
<i>Res</i>	24	4.631		

Res: Residual

Table S3 Person correlation of the data set, respect to α_{ETR} , ETR_{MAX} , $E_{K_{ETR}}$, F_v/F_m , NPQ_{MAX} , $Chl a$, $Chl c$, total carotenoids (TC), total phenolics compounds (TP), and antioxidant capacity (AA). **correlation is significant at the $p < 0.05$.

Variable		ETR_{MAX}	$E_{K_{ETR}}$	F_v/F_m	NPQ_{MAX}	$Chl a$	$Chl c$	TC	TP	AA
α_{ETR}	Coefficient	0.07	0.56**	0.40**	-0.33**	-0.17	-0.17	-0.26	0.12	0.17
	<i>p</i> value	0.702	4.4E-4	0.016	0.047	0.326	0.332	0.126	0.472	0.313
ETR_{MAX}	Coefficient	—	0.70**	-0.06	-0.21	-0.09	-0.13	0.01	0.28	0.35**
	<i>p</i> value	—	2.6E-6	0.720	0.227	0.597	0.462	0.943	0.099	0.038
$E_{K_{ETR}}$	Coefficient	—	—	-0.33	0.04	0.07	0.02	0.21	0.18	0.28
	<i>p</i> value	—	—	0.052	0.829	0.688	0.894	0.215	0.299	0.965
F_v/F_m	Coefficient	—	—	—	0.22	0.03	0.01	-0.12	-0.35**	-0.39**
	<i>p</i> value	—	—	—	0.208	0.877	0.949	0.487	0.038	0.019
NPQ_{MAX}	Coefficient	—	—	—	—	0.41**	0.36**	0.35**	-0.44**	-0.45**
	<i>p</i> value	—	—	—	—	0.014	0.034	0.038	0.007	0.006
$Chl a$	Coefficient	—	—	—	—	—	0.97**	0.96**	-0.22	-0.21
	<i>p</i> value	—	—	—	—	—	2.6E-19	5.8E-17	0.194	0.218
$Chl c$	Coefficient	—	—	—	—	—	—	0.92**	-0.23	-0.20
	<i>p</i> value	—	—	—	—	—	—	3.7E-12	0.183	0.248
TC	Coefficient	—	—	—	—	—	—	—	-0.13	-0.12
	<i>p</i> value	—	—	—	—	—	—	—	0.444	0.496
TP	Coefficient	—	—	—	—	—	—	—	—	0.75**
	<i>p</i> value	—	—	—	—	—	—	—	—	1.5E-7