

**Supplementary Table 1.** The trees on which *H. helix* individuals thrive and the environment at the site where they were collected

sample 1	GPS coordinates: N 44.74102°, E 17.17438° Altitude: 371 m a.s.l. Grows on beech trees ( <i>Fagus sylvatica</i> ) In close proximity to a water spring Surrounded mainly by beech ( <i>Fagus sylvatica</i> ) and linden tree
sample 2	GPS coordinates: N 44.74217°, E 17.17408° Altitude: 359 m a.s.l. Grows on beech trees ( <i>Fagus sylvatica</i> ) Surrounded mainly by beech trees ( <i>Fagus sylvatica</i> )
sample 3	GPS coordinates: N 44.74240°, E 17.17473° Altitude: 369 m a.s.l. Grows on maple trees ( <i>Acer pseudoplatanus</i> ) Surrounded by European black pine ( <i>Pinus nigra</i> ) and beech ( <i>Fagus sylvatica</i> ) trees
sample 4	GPS coordinates: 44.74241° N 17.1746° E Altitude: 322 m a.s.l. Grows on European hornbeams ( <i>Carpinus betulus</i> ) Surrounded mainly by European black pine trees ( <i>Pinus nigra</i> )
sample 5	GPS coordinates: N 44.74250°, E 17.17488° Altitude: 346 m a.s.l. Grows on beech trees ( <i>Fagus sylvatica</i> ) Surrounded mainly by beech trees ( <i>Fagus sylvatica</i> )

**Supplementary Table 2.** The annual values of the main meteorological parameters for 2017 and 2018 (MALINOVIĆ *et al.* 2018; DRAGIĆ *et al.* 2019).

Year	2017	2018
Temperature annual mean (°C)	12.6	12.9
Cloudiness (tenths)	5.4	5.9
Humidity (%)	72	77
Insolation (hours)	2369.1	2175.2
Thunder (number of days)	43	60
Snow (number of days)	48	52
Fog (number of days)	67	85
Frost (number of days)	72	71
Rain (number of days)	140	156

**Supplementary Table 3.** SOD isoforms in the leaves of *H. helix* over a one-year period: + indicates the presence in all samples; - indicates the absence in all samples; <+ indicates the presence in one sample; >+ indicates the presence in three/or more samples.

Month	SOD 1' (Rf= 0.35)	SOD 1 (Rf= 0.50)	SOD 2 (Rf= 0.59)	SOD 3 (Rf= 0.65)	SOD 4 (Rf= 0.69)	SOD 5 (Rf= 0.73)	SOD 6 (Rf= 0.79)
Dec 2017	-	>+	+	+	+	+	+
Jan 2018	-	+	+	+	+	+	+
Feb 2018	-	+	+	+	+	+	+
Mar 2018	<+	-	>+	+	-	-	-
Apr 2018	+	-	+	+	-	-	-
May 2018	-	-	-	+	+	+	+
Jun 2018	-	-	-	+	+	+	+
Jul 2018	-	-	-	+	+	+	+
Aug 2018	-	-	-	+	+	+	+
Sep 2018	-	-	-	-	+	+	+
Oct 2018	-	-	-	-	+	+	+
Nov 2018	-	-	-	+	+	+	+

**Supplementary Table 4.** POD isoforms in the leaves of *H. helix* over a one-year period: + indicates the presence in all samples; - indicates the absence in all samples; <+ indicates the presence in one sample; >+ indicates the presence in three samples

Month	POD 1 (Rf= 0.09)	POD 1' (Rf=0.19)	POD 2 (Rf= 0.27)	POD 3 (Rf= 0.33)	POD 4 (Rf= 0.45)
Dec 2017	+	-	+	+	+
Jan 2018	+	-	+	+	+
Feb 2018	+	-	+	-	-
Mar 2018	+	<+	+	+	-
Apr 2018	+	+	+	+	-
May 2018	+	-	+	+	>+
Jun 2018	+	-	+	+	>+
Jul 2018	+	-	+	+	+
Aug 2018	-	-	+	+	+
Sep 2018	+	-	+	+	+
Oct 2018	+	-	+	+	+
Nov 2018	+	-	+	+	+