

Online Resource

Biella P., Akter A., Muñoz Pajares A.J., Federici G., Galimberti G., Jersáková J., Labra M., Mangili F., Tommasi N. and Mangili L. Investigating pollination strategies in disturbed habitats: the case of the narrow-endemic toadflax *Linaria tonzigii* (Plantaginaceae) on mountain screes.

Appendix S1

Genetic identity and variation in *Linaria tonzigii*.

Young leaves (1-3 per plant) from each plant specimen were used for genetic screening (Table S1). The sequences obtained in this study are the very first molecular data regarding *L. tonzigii* ever deposited in public international archives (Table S1). When comparing sequences between populations, the genetic diversity was very low, with three poorly differentiated haplotypes at agt1, trnH-psbA and rpl32-trnL (Table S2). The sample from Mt. Cavallo showed exclusive haplotypes at three out of seven sequenced loci, whereas the population from Mt. Secco showed exclusive haplotypes at two loci. Overall, for each locus, most of the sampled populations shared the same haplotypes (Table S2).

Table S1- Sampling details and haplotypes of DNA sequences produced in this study. GenBank accession numbers are reported within brackets.

Voucher	Field ID	Species	Population	Coordindates	AGT1	ITS	matK	rbcL	trnH-psbA	rpl32-trnL	trnL-trnF
MIB:ZPL:07787	LTA1	<i>L. tonzigii</i>	Mt. Arera	45.930611, 9.804611	AG1 (LR746142)	IT1 (LR746138)	MK1 (LR746148)	RB1 (LR746145)	TP1 (LR746156)	RT1 (LR746151)	LF1 (LR746161)
MIB:ZPL:07788	LTA2	<i>L. tonzigii</i>	Mt. Arera	45.930611, 9.804611	AG1 (LR746142)	IT1 (LR746138)	MK1 (LR746148)	RB1 (LR746145)	TP1 (LR746156)	RT1 (LR746151)	LF1 (LR746161)
MIB:ZPL:07789	LTA3	<i>L. tonzigii</i>	Mt. Arera	45.934194, 9.804472	AG1 (LR746142)	–	–	–	–	RT1 (LR746151)	LF1 (LR746161)
MIB:ZPL:07790	LTC1	<i>L. tonzigii</i>	Mt. Cavallo	46.034483, 9.693883	AG2 (LR746143)	IT2 (LR746139)	MK1 (LR746148)	RB1 (LR746145)	TP2 (LR746157)	RT1 (LR746151)	LF1 (LR746161)
MIB:ZPL:07791	LTF1	<i>L. tonzigii</i>	Mt. Ferrante	45.974583, 10.030139	AG3 (LR746144)	IT1 (LR746138)	MK1 (LR746148)	RB1 (LR746145)	TP1 (LR746156)	RT1 (LR746151)	LF1 (LR746161)
MIB:ZPL:07792	LTM1	<i>L. tonzigii</i>	Mt. Menna	45.930222, 9.747694	AG3 (LR746144)	IT1 (LR746138)	MK1 (LR746148)	RB1 (LR746145)	TP3 (LR746158)	RT1 (LR746151)	LF1 (LR746161)
MIB:ZPL:07793	LTM2	<i>L. tonzigii</i>	Mt. Menna	45.930222, 9.747694	AG3 (LR746144)	–	–	–	–	RT1 (LR746151)	LF1 (LR746161)
MIB:ZPL:07794	LTM3	<i>L. tonzigii</i>	Mt. Menna	45.930222, 9.747694	AG3 (LR746144)	–	–	–	–	RT1 (LR746151)	LF1 (LR746161)
MIB:ZPL:07795	LTM4	<i>L. tonzigii</i>	Mt. Menna	45.930222, 9.747694	AG3 (LR746144)	–	–	–	–	RT1 (LR746151)	LF1 (LR746161)
MIB:ZPL:07796	LTM5	<i>L. tonzigii</i>	Mt. Menna	45.930222, 9.747694	AG3 (LR746144)	–	–	–	–	RT1 (LR746151)	LF1 (LR746161)
MIB:ZPL:07797	LTS1	<i>L. tonzigii</i>	Mt. Secco	45.924139, 9.882333	AG3 (LR746144)	IT1 (LR746138)	MK1 (LR746148)	RB1 (LR746145)	TP1 (LR746156)	RT2 (LR746152)	LF2 (LR746162)
MIB:ZPL:07798	LTS2	<i>L. tonzigii</i>	Mt. Secco	45.924139, 9.882333	AG3 (LR746144)	–	–	–	–	RT3 (LR746153)	LF2 (LR746162)
MIB:ZPL:07799	LA	<i>L. alpina</i>	Mt. Triomen	46.021513, 9.592167	–	LR746140	LR746149	LR746146	LR746159	LR746154	LR746163
MIB:ZPL:07800	LV	<i>L. vulgaris</i>	Mapello	45.713570, 9.560710	–	LR746141	LR746150	LR746147	LR746160	LR746155	LR746164

Table S2 – Genetic differences among samples of *L. tonzigii*. For each investigated locus, the length of aligned sequences (or the length range in case of indels occurring), the number of segregating sites (S), the number of haplotypes (h), the haplotype diversity (Hd) and the nucleotide diversity and its standard deviation (π (SD)) are reported.

	agt1	trnH-psbA	rpl32-trnL	trnL-trnF
length (bp)	846	320-331	804	848-858
S:	2	4	2	0
h:	3	3	3	2
Hd	0.530	0.333	0.318	0.303
π (SD)	0.00106 (0.00027)	0.00417 (0.00269)	0.00041 (0.00023)	0 (0)

Figure S5 – Example of an underground system in *Linaria tonzigii*.

