

The feeding behaviour of gall midge larvae and its implications for biocontrol of the giant reed: insights from stable isotope analysis

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Supplementary material

Table S1. Sampling sites. For each site geographical coordinates and description of the area are reported.

Site	Latitude (N)	Longitude (E)	Site description
A	41°59'3"	12°5'25"	Next to a canal surrounded by trees that shade the site and protect it from the wind in town Cerveteri.
B	42°1'35"	12°15'53"	On the edge of a busy road, covered by a few pine trees, in the small village of Osteria Nuova.
C	41°40'44"	12°44'19"	Near a drainage channel in town of Velletri.
D	42°0'57"	12°22'23"	Grassy area surrounded by urban buildings in La Storta, a district in the northern part of Rome
E	42°8'53"	12°16'22"	On a dirt road with little traffic and vegetation, in Trevignano Romano, near Lake Bracciano.
F	41°33'0"	12°43'46"	Near an agricultural drainage channel next to a busy tree-lined road of village of Campo Verde.

Table S2. C and N isotopic signatures of *L. donacis* with and without parasites in four sampling sites. The t-test refers to the comparison between parasitized and non-parasitized larvae in the same site.

Site	Larvae with parasites			Larvae without parasites			t-test	
	$\delta^{15}\text{N}$ (‰)	$\delta^{13}\text{C}$ (‰)	Sample size	$\delta^{15}\text{N}$ (‰)	$\delta^{13}\text{C}$ (‰)	Sample size	$\delta^{15}\text{N}$	$\delta^{13}\text{C}$
	Mean \pm S.D.	Mean \pm S.D.	N°	Mean \pm S.D.	Mean \pm S.D.	N°		
A	6.5 \pm 0.7	-27.7 \pm 1.0	13	6.0 \pm 0.8	-27.2 \pm 0.9	14	n.s.	n.s.
B	5.5 \pm 1.2	-27.5 \pm 2.1	13	5.5 \pm 1.8	-28.0 \pm 0.9	13	n.s.	n.s.
D	5.5 \pm 3.5	-28.9 \pm 0.8	12	5.7 \pm 3.8	-29.1 \pm 0.7	12	n.s.	n.s.
E	4.2 \pm 0.7	-25.8 \pm 1.2	12	5.0 \pm 0.9	-25.4 \pm 0.7	12	p < 0.05	n.s.