

Supplementary materials

Table S1. Mean \pm SD, minimum and maximum values of age, antler length (AL, cm), body length (BL, in cm), thoracic perimeter (TP, in cm), and the dark ventral patch size (DVP, in cm) per type of population (HC vs LC) as covariables included in LMM1 and LMM2. Percentage of parasitized and non-parasitized individuals in both HC and LC populations as a factor of LMM1 and LMM2.

Variable	Age	AL	BL	TP	DVP	$\delta^{13}\text{C}$	$\delta^{15}\text{N}$	Parasitized	
								Yes	No
Mean \pm S.D. (Minimum / Maximum values)									
HC (N= 46*)	3.37 \pm	57.7 \pm	181 \pm	119 \pm	36.8 \pm	-26.3 \pm	0.511 \pm	71.42 %	28.57 %
	1.68	9.58	10.8	6.16	25.4	1.57	1.28		
	(2/8)	(36.8/78.5)	(154/201)	(100/130)	(0/73)	(-28.8/-21.7)	(-2.17/2.87)		
LC (N = 32*)	2.97 \pm	52.3 \pm	175 \pm	114 \pm	28.3 \pm	-26.1 \pm	2.25 \pm	80 %	20 %
	1.52	11.60	12.1	8.18	20.4	1.30	1.40		
	(2/9)	(36.4/82.6)	(154/200)	(100/132)	(5/67)	(-28.9/-23.7)	(-0.49/4.76)		

* Faecal samples from 42 individuals of HC and 25 individuals from LC populations