

Table S1. *P* values obtained from pairwise comparisons of the wild ruminants prevalence using Fisher's exact test.

Total lungworms

	Iberian Ibex	Red deer	Fallow deer
Red deer	3.851e-02	-	-
Fallow deer	2.593e-08	1.038e-07	-
Mouflon	1.0	4.509e-04	5.805e-19

C. ocreatus

	Iberian Ibex	Red deer	Fallow deer
Red deer	4.806e-04	-	-
Fallow deer	6.861e-05	1.0	-
Mouflon	1.977e-05	3.122e-24	7.144e-32

M. capillaris

	Iberian Ibex	Red deer	Fallow deer
Red deer	2.811e-14	-	-
Fallow deer	2.373e-17	1.0	-
Mouflon	6.508e-01	4.449e-21	6.269e-28

Protostrongylus spp.

	Iberian Ibex	Red deer	Fallow deer
Red deer	1.405e-08	-	-
Fallow deer	2.039e-10	1.0	-
Mouflon	4.000e-03	0.0001167	3.416e-06

Dictyocaulus spp.

	Iberian Ibex	Red deer	Fallow deer
Red deer	1.0	-	-
Fallow deer	1.0	0.79498	-
Mouflon	0.2065	0.00474	0.00474

N. linearis

	Iberian Ibex	Red deer	Fallow deer
Red deer	6.881e-13	-	-
Fallow deer	1.993e-15	1.0	-

Mouflon	8.770e-03	1.547e-09	6.881e-13
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Varestrongylus sagittatus

	Iberian Ibex	Red deer	Fallow deer
Red deer	1.0	-	-
Fallow deer	0.2489	0.003863	-
Mouflon	1.0	1.0	0.003863

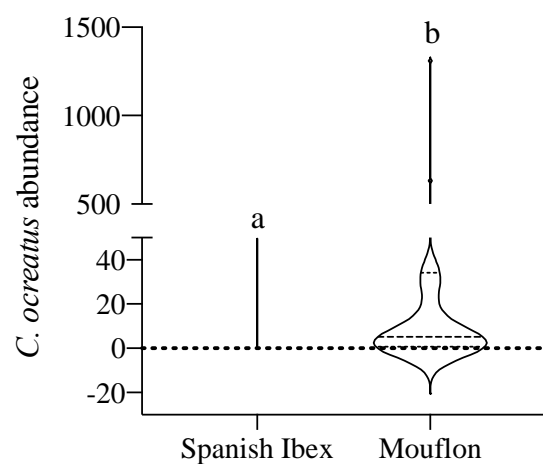
Elaphostrongylus cervi

	Iberian Ibex	Red deer	Fallow deer
Red deer	5.796e-06	-	-
Fallow deer	1.0	4.280e-19	-
Mouflon	1.0	2.195e-13	1

Table S2. *P* values obtained from Kruskal–Wallis analysis for the commonly found nematodes species.

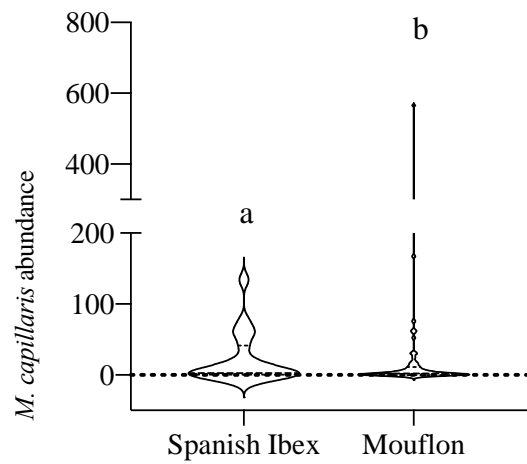
C. ocreatus

	Iberian Ibex	Red deer	Fallow deer
Red deer	3.5e-05	-	-
Fallow deer	1.1e-07	-	-
Mouflon	0.00018	< 2e-16	< 2e-16



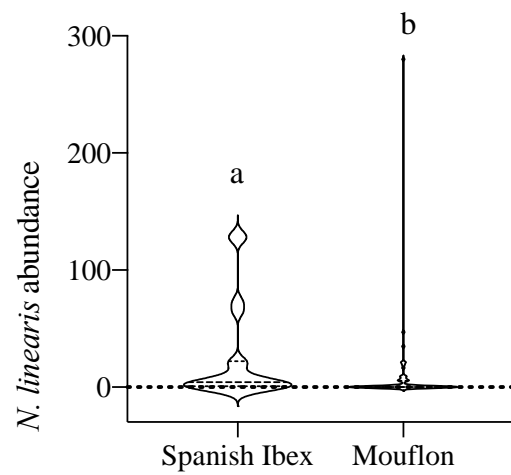
M. capillaris

	Iberian Ibex	Red deer	Fallow deer
Red deer	1e-15	-	-
Fallow deer	<2e-16	-	-
Mouflon	0.38	<2e-16	<2e-16



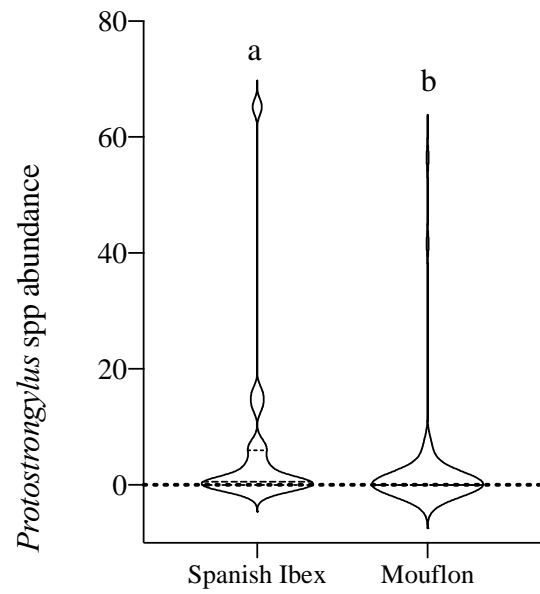
N. linearis

	Iberian Ibex	Red deer	Fallow deer
Red deer	2.4e-14	-	-
Fallow deer	< 2e-16	-	-
Mouflon	0.0019	2.4e-08	1.9e-12



Protostrongylus spp.

	Iberian Ibex	Red deer	Fallow deer
Red deer	2.5e-10	-	-
Fallow deer	9.9e-16	-	-
Mouflon	0.0025	0.0002	2.1e-06



Dictyocaulus spp.

	Iberian Ibex	Red deer	Fallow deer
Red deer	-	-	-
Fallow deer	0.5620	0.3483	-
Mouflon	0.1242	0.0032	0.0032

