

Supplementary Table II. Estimates of evolutionary divergence between sequences. The number of base substitutions per site from between sequences are shown. Analyses were conducted using the Maximum Composite Likelihood model. This analysis involved 14 nucleotide sequences. All ambiguous positions were removed for each sequence pair (pairwise deletion option). There was a total of 6794 positions in the final dataset.

<i>Fasciola</i> species accession no. country	1	2	3	4	5	6	7	8	9	10	11	12	13	14
<i>F. hepatica</i> AJ628432 China	0.00													
<i>Fasciola</i> sp. AJ628427 China	0.00													
<i>F. gigantica</i> AJ628425 China	0.01	0.00												
<i>Fasciola</i> sp. AJ628426 China	0.00	0.00	0.00											
<i>Paramphistomum cervi</i> MW567217 Pakistan	3.39	3.45	3.07	3.45										
<i>F. gigantica</i> MN970009 Vietnam	2.30	2.30	2.16	2.30	5.46									
<i>F. gigantica</i> MN784632 Iran	4.57	4.65	4.62	4.65	4.95	4.80								
<i>F. gigantica</i> KF425321 Egypt	5.77	5.80	5.80	5.80	3.51	5.29	5.07							
<i>F. gigantica</i> JN828953 Iran	2.42	2.31	2.29	2.31	4.42	4.93	3.23	4.82						
<i>F. gigantica</i> JF496711 China	3.63	3.65	3.63	3.65	4.25	4.16	3.53	4.49	5.40					
<i>F. gigantica</i> EF198867 India	2.66	2.76	2.66	2.76	4.25	3.56	3.61	4.25	3.23	3.08				
<i>F. gigantica</i> MN784626 Iran	4.57	4.65	4.62	4.65	4.95	4.75	0.01	5.03	3.15	3.44	3.61			
<i>Fasciola gigantica</i> isolate A (OM212803)	1.47	1.39	1.37	1.39	5.17	3.81	5.58	5.10	5.61	4.84	5.56	5.58		
<i>Fasciola gigantica</i> isolate B (OM212804)	3.83	3.96	4.02	3.96	3.92	5.79	5.71	5.24	5.80	5.18	5.93	5.71	0.66	0.00

Supplementary Table III. The prevalence and absorbance values of fasciolosis among host type, sex, and age groups from Punjab, Pakistan.

Characteristics		No. of animals examined	Positive n (%)	χ^2 P-values	OD values (Mean \pm SD)	95% CI (lower-upper)
Host	Buffaloes	249	87(17.4)	12.18; p<0.001	0.09 \pm 0.09	0.08-0.10
	Cattel	250	126(25.3)		0.13 \pm 0.06	0.12-0.14
Sex	Female	317	123 (24.6)	5.36; p=0.02	0.10 \pm 0.08	0.09-0.11
	Male	182	90 (18.0)		0.12 \pm 0.09	0.10-0.13
Age	1-3	160	62 (12.4)	1.49; p=0.22	0.10 \pm 0.07	0.09-0.11
	>3-6	339	151(30.3)		0.12 \pm 0.08	0.10-0.12