

## **Supplementary Material**

**Article title:** Impact of host sex and age on the diversity of endoparasites and structure of individual-based host-parasite networks in nyalas (*Tragelaphus angasii* Angas) from three game reserves in KwaZulu-Natal Province, South Africa.

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**Supplementary material. Table S2** Phylogenetic and life cycle traits of parasites collected from nyalas (*Tragelaphus angasii* Angas) in game reserves of KwaZulu-Natal Province, South Africa

Parasite taxon	Family	Taxon code	Site in host	Life cycle	Transmission mode
<b>Phylum: Nematoda</b>					
<b>Class: Chromadorea</b>					
<b>Order: Strongylida</b>					
<i>Haemonchus vegliai</i> Le Roux, 1929	Haemonchidae	Haeveg	Abomasum	Direct	Trophic: accidental ingestion of L3
<i>Ostertagia harrisi</i> Le Roux, 1930	Haemonchidae	Osthar	Abomasum	Direct	Trophic: accidental ingestion of L3
<i>Cooperia rotundispiculum</i> Gibbons & Khalil, 1980	Cooperiidae	Coorot	Small intestine	Direct	Trophic: accidental ingestion of L3
<i>Paracooperia horaki</i> Boomker, 1986	Cooperiidae	Parhor	Small intestine	Direct	Trophic: accidental ingestion of L3
<i>Impalaia tuberculata</i> Mönnig, 1923	Cooperiidae	Imptub	Small intestine	Direct	Trophic: accidental ingestion of L3
<i>Trichostrongylus falculatus</i> Ransom, 1911	Trichostrongylidae	Trifal	Small intestine	Direct	Trophic: accidental ingestion of L3
<i>Trichostrongylus deflexus</i> Boomker & Reinecke, 1989	Trichostrongylidae	Tridef	Small intestine	Direct	Trophic: accidental ingestion of L3
<i>Trichostrongylus</i> sp.	Trichostrongylidae	Trispe	Small intestine	Direct	Trophic: accidental ingestion of L3
<i>Gaigeria pachyscelis</i> Railliet & Henry, 1910	Ancylostomatidae	Gaipac	Small intestine	Direct	Percutaneous invasion
<i>Oesophagostomum</i> sp.	Chabertiidae	Oesspe	Large intestine	Direct	Trophic: accidental ingestion of L3
<i>Dictyocaulus viviparus</i> (Bloch, 1782)	Dictyocaulidae	Dicviv	Lungs	Direct	Trophic: accidental ingestion of L3
<b>Order: Spirurida</b>					
<i>Elaeophora sagitta</i> (von Linstow, 1907)	Onchocercidae	Elasag	Heart and coronary vessels	Indirect	Vector-transmitted: haematophagous arthropod
<i>Setaria</i> sp.	Onchocercidae	Setspe	Abdominal cavity	Indirect	Vector-transmitted: haematophagous arthropod
<i>Gongylonema</i> sp.	Gongylonematidae	Gonspe	Oesophagus, distal part of rumen	Indirect	Trophic: accidental ingestion of intermediate host

<b>Phylum: Platyhelminthes</b>					
<b>Class: Trematoda</b>					
<b>Superfamily: Paramphistomoidea</b>					
Paramphistominae	Paramphistomidae	Paramp	Rumen	Indirect	Percutaneous invasion of intermediate host; followed by accidental ingestion of intermediate host by definitive host
<b>Superfamily: Schistosomatoidea</b>					
<i>Schistosoma mattheei</i> Veglia & Le Roux, 1929	Schistosomatidae	Schmat	Mesenteric veins	Indirect	Percutaneous invasion of both intermediate and definitive host
<b>Class: Cestoda</b>					
<b>Order: Cyclocephallidea</b>					
<i>Thysaniezia</i> sp.	Anoplocephalidae	Thyspe	Small intestine	Indirect	Trophic: accidental ingestion of intermediate host
<i>Taenia</i> sp.	Taeniidae	Taespe	Metacestodes in the musculature	Indirect	Trophic: predator-prey relationship between definitive and intermediate host
<b>Phylum: Pentastomida</b>					
<b>Class: Eupentastomida</b>					
<b>Order: Porocephalida</b>					
<i>Linguatula</i> sp.	Linguatulidae	Linspe	Nymphs on viscera and in blood vessels	Indirect	Trophic: predator-prey relationship between definitive and intermediate host

L3 – Infective larva