

Supplementary File 1: Comparative anatomy references of Clade III nematodes

Key references denoting relative locations of key structures in Clade III nematodes selected by phylogenetic closeness to *Brugia malayi* according to previous publications.[1,2]

Species include:

Brugia malayi [3–7], *Brugia timori* [8–10], *Brugia pahangi* [6,11–14], *Wuchereria bancrofti* [5,15–19], *Loa loa* [5,20,21], *Litomosoides petteri* [22], *Acanthocheilonema odendhali* [23–25], *Elaeophora schneideri* [26,27], *Mansonella interstitium* [28], *Mansonella perstans* [29], *Dirofilaria immitis* [5,30,31], *Onchocerca volvulus* [32–34], *Oxyspirura conjunctivalis* [35], *Oxyspirura mansoni* [36], *Gongylonema pulchrum* [37,38], *Dracunculus globocephalus* [39,40], *Dracunculus lutrae* [41], *Anisakis simplex* [42–44], *Ascaris lumbricoides* [45], *Ascaris suum* [46,47], *Parascaris equorum* [48], *Toxocara canis* [49–52], *Enterobius anthropopitheci* [53], *Enterobius vermicularis* [54–56], and *Lemuricola nycticebi* [57].

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