A new aphelenchoidid insect parasite from a tenebrionid beetle, *Uloma marseuli*

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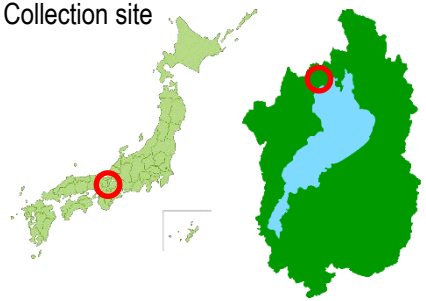
Collection site



Collection site (Makino, Takashima, Shiga, Japan)
- Relatively cool temperate zone

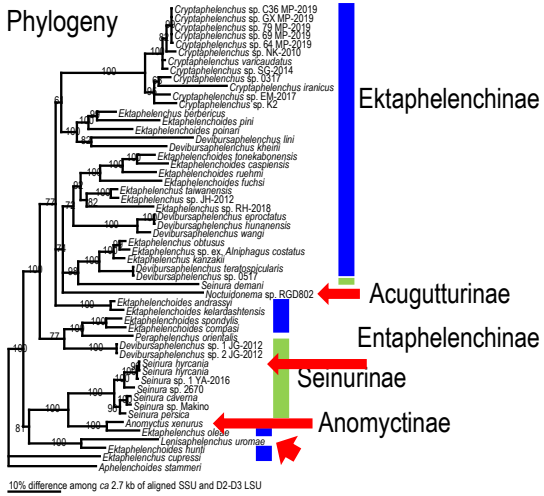
Uloma marseuli
- A carnivorous insect
- Overwintering individuals collected in March, 2019 from rotten oak (*Quercus* cf. *serrata*) branch

- 7 individuals in total

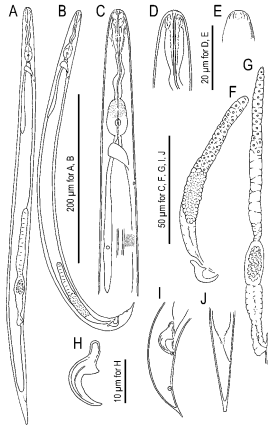
- Dissection in M9 buffer

- Isolation of:
  Several aphelenchoidid parasites from body cavity
  A thelastomatid parasite from hindgut

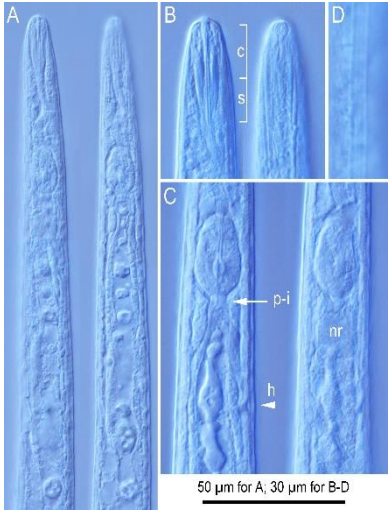
Phylogeny

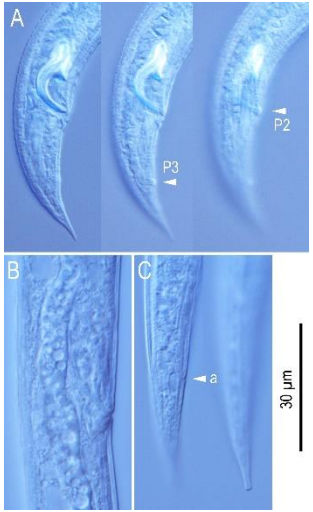


Morphology



- Dome-shaped head
- Two pairs of genital papillae
- Unclear (not functional?) anus and rectum
- Not well-developed female gonad





Summary and remarks

- Typologically close to Ektaphelenchinae, but phylogenetic status is unclear
- Described as *Lenisaphelenchus uromae* n. gen., n. sp.
- Isolation from overwintering host as not well-developed adults (especially females) possibly suggests the species has more developed parasitic female (= Entaphelenchinae), and further surveys are necessary
- Further isolation followed by molecular and morphological analyses are necessary to understand clade 3 aphelenchodids

Further details have been published as:
Kanzaki, N. & Hamaguchi, K. (2020). *Lenisaphelenchus ulomae* n. gen., n. sp. (Rhabditida: Aphelenchoididae) isolated from the body cavity of *Uloma marseuli* Nakane (Coleoptera: Tenebrionidae) from Japan. *Nematology* 22: 961-974. DOI: 10.1163/15685411-bja10004.