Pratylenchus

Female

Male
Nematode Body Shapes

- Short & Stout
- Spiral
- Kidney-shaped
- Saccate
- Fusiform
HEAD SHAPES IN NEMATODES

- Flat
- Conical
- Offset from body
- Continuous with body
- Head with Setae
STYLET IN PPNs

- Stomatostylet
- Odontostylet
CUTICULAR PATTERNS IN NEMATODES

- Cuticle smooth without dots

- Cuticle externally fairly smooth, but striations appear to be the result of a deeper structure

- Cuticle coarsely striated resembling annulations

- Cuticle covered with fine, transverse row of dots, although the surface appears smooth

- Cuticle covered with fine dots, sometimes irregular laterally although the surface appears smooth

- Cuticle marked with longitudinal row of structures
TYPES OF OESOPHAGUS

- One-part Oesophagus
- Two-part Oesophagus
- Three-part Oesophagus
OVARY TYPE & DIRECTION

- Reflexed ovaries

- Outstretched ovaries

- Amphidelphic
- Prodelphic
- Opistodelphic
ROOT-KNOT NEMATODE

Adult Female
ENTOMOPATHOGENIC NEMATODE

In some species, the infective juveniles wait at the soil surface for a mobile host.

In most species, infective juveniles actively search for sedentary hosts.

Infective nematode enters through natural openings in new host.

Infective juveniles leave cadaver.

Bacteria within nematode gut are released.

Nematode life cycle.

Nutrients from cadaver gone.

Nematode go through 2-3 generations.

Nematode within cadaver develop.

Host dies within 24-48 hours.
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The Nematode

One million and one ghosts
In a pack of soil
Inhabiting diverse hosts
Twisting up in a stealthy coil
Colourless, round germs
Invisible to the naked eyes
Hookworms, heartworms, eelworms

Wreaking havoc greater than their size

*Meloidogyne or Trichinella*
In plants or in animals...
Spread by man, wind, or water
And curbed by *cidal* chemicals

The root knots in my tomatoes
Plus the weight loss in my cattle
Are but some of their deadly blows
For sure, Nematodes, we can’t belittle !!!

All hail the filiform creature
That makes anywhere its abode
As long as there’s a bit of moisture
You can be sure to find the nematode !!!

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