
Nematodes

In the more than five decades since the first edition of this book was prepared, nematodes have become of major importance in plant pathology. Several hundred species are known to cause plant disease. All plant parasitic nematodes are in the animal kingdom and belong to the phylum Nematoda. Some examples are given after each genus.

PHYLUM: Nematode

ORDER: Tylenchida

SUBORDER: Tylenchina

SUPERFAMILY: Tylenchoidea

FAMILY: Anguinidae

GENUS: *Anguina*, seed gall nematode.

Ditylenchus, stem or bulb nematode of onion, narcissus.

FAMILY: Pratylenchidae

GENUS: *Pratylenchus*, lesion nematode of nearly all plants.

Radopholus, burrowing nematode of citrus.

Nacobus, false root-knot nematode of garden beets, cacti, crucifers, lettuce.

FAMILY: Hoplolaimidae

GENUS: *Hoplolaimus*, lance nematode of corn, turf grass, carnation.

Rotylenchus, spiral nematode of turf grass, tomato, gardenia.

Helicotylenchus, spiral nematode of turf grass, gardenia, azalea, apple, grape.

Rotylenchulus, reniform nematode of turf grass, tomato, gardenia.

FAMILY: Dolichodoridae

GENUS: *Dolichodorns*, and nematode of turfgrass.

FAMILY: Belonolaimidae

GENUS: *Belonolaimus*, sting nematode on wide variety of plants.

Tylenchorhynchus, stunt nematode tobacco, corn

FAMILY: Heteroderidae

GENUS: *Globodera*, cyst nematode of potato.

Heterodera, cyst nematode on wide variety of plants.

Meloidogyne, root-knot nematode on wide variety of plants.

FAMILY: Tylenchidae

GENUS: *Tylenchus*

SUPERFAMILY: Criconematoidea

FAMILY: Criconematidea

GENUS: *Criconemella*, ring nematode of citrus, fig, zoysia.

Hemicycliophora, sheath nematode of beet, bean, blueberry, dracaena.

FAMILY: Tylenchulidae

GENUS: *Tylenchulus*, citrus nematode of citrus, grapes, lilac.

Paratylenchus, pin nematode of carnation, celery, fig.

ORDER: Aphelenchida

SUBORDER: Aphelenchina

SUPERFAMILY: Aphelenchoidea

FAMILY: Aphelenchoididae

GENUS: *Aphelenchoides*, foliar nematode of chrysanthemum, strawberry, lilly, begonia.

Bursaphelenchus, pine wood nematode.

Rhadinaphelenchus, coconut red ring nematode.

ORDER: Triplonchida

FAMILY: Trichodoridae

GENUS: *Paratrichodorus*, stubby root nematode of apple, vegetables.

Trichodorus, stubby root nematode of vegetables, turf grass, dahlia, azalea.

ORDER: Dorylaimida

FAMILY: Longidoridae

GENUS: *Longidorus*, needle nematode of grape, celery, leek, lettuce, parsley.

Xiphinema, dagger nematode of rose, trees, many annuals.