

# A reappraisal of Tylenchina (Nemata). 11. List of generic and supra-generic taxa, with their junior synonyms

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## SUMMARY

The series of papers under the heading « A reappraisal of Tylenchina (Nemata) » 1 through 10 having been completed are now summarized and presented in tabular form. This paper is complementary to the earlier classification presented by Maggenti *et al.* (1987). In this paper Tylenchina is divided into two superfamilies, nine families, eighteen subfamilies and 116 genera. The taxa considered as junior synonyms, *dubia* or *incertae sedis* are : two suborders, six superfamilies, 29 families, 51 subfamilies, and 134 taxa of the genus-group (i.e. genera and sub-genera). Also included are notes and discussions of new taxonomic actions. Actions taken are : *Ceramotylenchus* Ebsary, 1986 is synonymized with *Miculenchus* Andrassy, 1951; *Pseudobasiria* Jahan, 1986 is synonymized with *Basiria* Siddiqi, 1959; *Brachydorus* de Guiran & Germani, 1968 is considered a valid genus; Pararotylenchidae Baldwin & Bell, 1981 and Interrotylenchidae Eroshenko, 1984 are synonyms of Hoplolaimidae Filip'ev, 1934; Interrotylenchinae Eroshenko, 1984 and Scutelloneminae Eroshenko, 1984 are synonyms of Hoplolaiminae Filip'ev, 1934; *Interrotylenchus* Eroshenko, 1984 and *Scutellonemoides* Eroshenko, 1984 are synonymized with *Rotylenchus* Filip'ev, 1936; Criconemellinae Khan & Saeed, 1984 is synonymized with Criconematinae, Taylor, 1936; correct synonymizations of *Mesocriconema* and *Madinema* (both with *Criconemella*) and of *Neocriconema* (with *Discocriconemella*) are given, as well as correct authorities and dates concerning species of *Trophotylenchulus*. The article ends with an alphabetic repertory of generic and suprageneric taxa of the suborder.

## RÉSUMÉ

*Réévaluation des Tylenchina (Nemata). 11. Liste des taxons génériques et supragénériques, et de leurs synonymes*

La série des dix articles constituant une « Réévaluation des Tylenchina » est condensée, sous forme de liste, dans le présent article qui complète la classification présentée par Maggenti *et al.* (1987). Les Tylenchina sont divisés en deux superfamilles, neuf familles, dix-huit sous-familles et 116 genres. Les taxons considérés comme synonymes mineurs, *dubia* ou *incertae sedis* sont : deux sous-ordres, six superfamilles, 29 familles, 51 sous-familles et 134 taxons du groupe-genre (genres et sous-genres). Des notes concernant de nouvelles propositions taxonomiques complètent l'article. Ces propositions sont les suivantes : *Ceramotylenchus* Ebsary, 1986 est synonymisé à *Miculenchus* Andrassy, 1951; *Pseudobasiria* Jahan, 1986 à *Basiria* Siddiqi, 1959; *Brachydorus* de Guiran & Germani, 1968 est rétabli comme genre valide; les familles des Pararotylenchidae Baldwin & Bell, 1981 et des Interrotylenchidae Eroshenko, 1984 sont synonymisées aux Hoplolaimidae Filip'ev, 1934; les Interrotylenchinae Eroshenko, 1984 et Scutelloneminae Eroshenko, 1984 aux Hoplolaiminae Filip'ev, 1934; *Interrotylenchus* Eroshenko, 1984 et *Scutellonemoides* Eroshenko 1984, à *Rotylenchus* Filip'ev, 1936; les Criconemellinae Khan & Saeed, 1984 aux Criconematinae Taylor, 1936. Sont données également les synonymisations correctes de *Mesocriconema* et *Madinema* (l'un et l'autre avec *Criconemella*) et de *Neocriconema* (avec *Discocriconemella*), de même que les autorités et dates correctes concernant certaines espèces du genre *Trophotylenchulus*. L'article se termine par un répertoire alphabétique des taxons génériques et supragénériques du sous-ordre.

This article constitutes a summary of the classifications that appeared in the series of articles on Tylenchina (Luc *et al.*, 1987; Maggenti *et al.*, 1987; Geraert & Raski, 1987; Fortuner & Maggenti, 1987; Luc & Fortuner, 1987; Fortuner & Luc, 1987; Luc, 1987; Fortuner, 1987; Raski & Luc, 1987; Luc, Maggenti & Fortuner,

1988). The generic and suprageneric taxa of this sub-order, together with their junior synonyms are given below, followed by some notes explaining new data : omissions in previous articles, recently published taxa, new synonymies, changes, etc.

The list is complete for the articles abstracted in *Hel-*

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*minthol. Abstr. Ser. B*, up to and including vol. 55 (1986). It has been completed, as far as possible, by consulting publications not yet recorded in *Helminthol. Abstr.*

## CLASSIFICATION OF THE SUBORDER TYLENCHINA

Suborder **TYLENCHINA** Chitwood, 1950

- = Heteroderina Skarbilovich, 1959
- = Criconematina Siddiqi, 1980

\*Superfamily **Tylenchoidea** Örley, 1880

- = Hoplolaimoidea Filip'ev, 1934
- = Heteroderoidea Filip'ev & Schuurmans Stekhoven, 1941
- = Dolichodoroidea Chitwood, 1950
- = Atylenchoidea Skarbilovich, 1959

\*Family **TYLENCHIDAE** Örley, 1880

- = Atylenchidae Skarbilovich, 1959
- = Ecphyadophoridae Skarbilovich, 1959
- = Boleodoridae Khan, 1964
- = Tyloporidae Paramonov, 1967

\*Subfamily **TYLENCHINAE** Örley, 1880

- = Dactylotylenchinae Wu, 1969
- = Duosulciinae Siddiqi, 1979

### Genera :

- \**Tylenchus* Bastian, 1865
- = *Aerotylenchus* Fotedar & Handoo, 1979
- Miculenchus* Andrassy, 1951
- = *Ceramotylenchus* Ebsary, 1986 (n. syn.) [cf. Note N° 1]
- Filenchus* Andrassy, 1954
- = *Ottolenchus* Husain & Khan, 1965
- = *Dactylotylenchus* Wu, 1968
- = *Lambertia* Brzeski, 1977
- = *Duosulcius* Siddiqi, 1979
- = *Zanenchus* Siddiqi, 1979
- = *Discotylenchus* Siddiqi, 1980
- Malenchus* Andrassy, 1968
- = *Neomalenchus* Siddiqi, 1979
- Irantylenchus* Kheiri, 1972
- Polenchus* Andrassy, 1980
- Allotylenchus* Andrassy, 1984
- Cucullitylenchus* Huang & Raski, 1986
- Mukazia* Siddiqi, 1986 [cf. Note N° 2]

Subfamily **ECPHYADOPHORINAE** Skarbilovich, 1959

- = Epicharinematinae Maqbool & Shahina, 1985
- = Ecphyadophoroidinae Siddiqi, 1986

### Genera :

- \**Ecphyadophora* de Man, 1921
- = *Karachinema* Maqbool & Shahina, 1985

*Lelenchus* Andrassy, 1954

- = *Tylenchus* (*Lelenchus*) Andrassy, 1954
- Ecphyadophoroides* Corbett, 1964
- = *Tenunemellus* Siddiqi, 1986
- Epicharinema* Raski, Maggenti, Koshy & Sosamma, 1982
- Mitranema* Siddiqi, 1986

Subfamily **TYLADORINAE** Paramonov, 1967

- = *Campbellenchinae* Wouts, 1978
- = *Eutylenchinae* Siddiqi, 1986

### Genera :

- Eutylenchus* Cobb, 1913
- Macrotrophurus* Loof, 1958
- Cephalenchus* Goodey, 1962
- = *Imphalenchus* Dhanachand & Jairajpuri, 1980
- \**Tylodorus* Meagher, 1963
- Campbellenchus* Wouts, 1977

Subfamily **ATYLENCHINAE** Skarbilovich, 1959

- = *Antarctenchinae* Spaull, 1972
- = *Pleurotylenchinae* Andrassy, 1976
- = *Aglenchinae* Siddiqi & Khan, 1983

### Genera :

- \**Atylenchus* Cobb, 1913
- Aglenchus* Andrassy, 1954
- Pleurotylenchus* Szczygiel, 1969
- Antarctenchus* Spaull, 1972
- Gracilancea* Siddiqi, 1976
- Coslenchus* Siddiqi, 1978
- = *Cosaglenchus* Siddiqui & Khan, 1983
- = *Paktylenchus* Maqbool, 1983

Subfamily **BOLEODORINAE** Khan, 1964

- = *Psilenchinae* Paramonov, 1967
- = *Basiriinae* Decker, 1972
- = *Leipotylenchinae* Sher, 1973

### Genera :

- Psilenchus* de Man, 1921
- \**Boleodorus* Thorne, 1941
- Basiria* Siddiqi, 1959
- = *Clavilenchus* Jairajpuri, 1966
- = *Basiroides* Thorne & Malek, 1968
- = *Neobasiria* Javed, 1982
- = *Pseudobasiria* Jahan, 1986 (n. syn.) [cf. Note N° 3]
- Neopsilenchus* Thorne & Malek, 1968
- Atetylenchus* Khan, 1973
- = *Leipotylenchus* Sher, 1974
- Neothada* Khan, 1973
- Duotylenchus* Saha & Khan, 1982
- Basirienchus* Geraert & Raski, 1986
- Genus incertae sedis :**
- Luella* Massey, 1974
- Genera dubia :**
- Sakia* Khan, 1964
- Basiliophora* Husain & Khan, 1965

Family **ANGUINIDAE** Nicoll, 1935 (1926)

- = *Anguillulinidae* Baylis & Daubney, 1926
- = *Nothotylenchidae* Thorne, 1941

\* Asterisk indicates the type taxon for each rank.

- = Sychnotylenchidae Paramonov, 1967
- = Ditylenchidae Golden, 1971
- = Halenchidae Jairajpuri & Siddiqi, 1969
- = Anguillulinae Baylis & Daubney, 1926
- = Nothotylenchinae Thorne, 1941
- = Sychnotylenchinae Paramonov, 1967
- = Halenchinae Jairajpuri & Siddiqi, 1969
- = Pseudhalenchinae Siddiqi, 1971
- = Ditylenchinae Golden, 1971
- = Neoditylenchinae Kakuliya & Devdariani, 1975
- = Cynipanguininae Fotedar & Handoo, 1978
- = Nothanguininae Fotedar & Handoo, 1978
- = Thadinae Siddiqi, 1986

**Genera :**

\**Anguina* Scopoli, 1777

- = *Anguillulina* (*Anguina*) Scopoli, 1777
- = *Anguillulina* Gervais & Van Beneden, 1869
- = *Paranguina* Kir'yanova, 1955
- = *Nothanguina* Whitehead, 1959

*Halenchus* Cobb, 1933

*Ditylenchus* Filip'ev, 1936

- = *Anguillulina* (*Ditylenchus*) Filip'ev, 1936
- = *Nothotylenchus* Thorne, 1941
- = *Boleodoroides* Mathur, Khan & Prasad, 1966
- = *Diptenchus* Khan, Chawla & Seshadri, 1969
- = *Safianema* Siddiqi, 1980
- = *Orrina* Brzeski, 1981

*Thada* Thorne, 1941

*Sychnotylenchus* Rühm, 1956

- = *Neoditylenchus* Meyl, 1961

*Pseudhalenchus* Tarjan, 1958

*Subanguina* Paramonov, 1967

- = *Heteroanguina* Chizhov, 1980
- = *Afrina* Brzeski, 1981

= *Mesoanguina* Chizhov & Subbotin, 1985

*Cynipanguina* Maggenti, Hart & Paxam, 1974

*Pterotylenchus* Siddiqi & Lenne, 1984

**Genus incertae sedis :**

*Chitinotylenchus* Micoletzky, 1922

Family DOLICHODORIDAE Chitwood, 1950

**Genera :**

\**Dolichodorus* Cobb, 1914

*Brachydorus* de Guiran & Germani, 1968 [cf. note No 4]

*Neodolichodorus* Andrassy, 1976

- = *Plesiadorus* Siddiqi, 1976

Family BELONOLAIMIDAE Whitehead, 1960

= Telotylenchidae Siddiqi, 1960

= Tylenchorhynchidae Eliava, 1974

\*Subfamily BELONOLAIMINAE Whitehead, 1960

**Genera :**

\**Belonolaimus* Steiner, 1949

- = *Ibipora* Monteiro & Lordello, 1977

*Carphodorus* Colbran, 1965

*Morulaimus* Sauer, 1966

*Geocenamus* Thorne & Malek, 1968

= *Hexadorus* Ivanova & Shagalina, 1983

*Sauertylenchus* Sher, 1974

Subfamily TELOTYLENCHINAE Siddiqi, 1960

= Tylenchorhynchinae Eliava, 1964

= Trophurinae Paramonov, 1967

= Tetylenchinae Siddiqi, 1970

= Merliniinae Siddiqi, 1971

= Meiodorinae Siddiqi, 1971

**Genera :**

\**Tylenchorhynchus* Cobb, 1913

= *Bitylenchus* Filip'ev, 1934

= *Telotylenchus* Siddiqi, 1960

= *Quinisulcius* Siddiqi, 1971

= *Dolichorhynchus* Mulk & Jairajpuri, 1974 *nec* Wiley, 1901 (Cephalochordata)

= *Trilineellus* Lewis & Golden, 1981

= *Divittus* Jairajpuri, 1984

= *Morasinema* Javed, 1984

= *Tessellus* Jairajpuri & Hunt, 1984

= *Neodolichorhynchus* Jairajpuri & Hunt, 1984

*Trophurus* Loof, 1956

= *Clavaurotylenchus* Caveness, 1958

*Trichotylenchus* Whitehead, 1960

= *Uliginotylenchus* Siddiqi, 1971

*Nagehus* Thorne & Malek, 1968

*Paratrophurus* Arias, 1970

= *Histotylenchus* Siddiqi, 1971

= *Telotylenchoides* Siddiqi, 1971

*Merlinius* Siddiqi, 1970

= *Scutylenchus* Jairajpuri, 1971

*Triversus* Sher, 1974

= *Meiodorus* Siddiqi, 1974

= *Mulveyotus* Anderson & Ebsary, 1982

*Amplimerlinius* Siddiqi, 1976

**Genus dubium :**

*Tetylenchus* Filip'ev, 1936

Family PRATYLENCHIDAE Thorne, 1949

= Nacobbidae Chitwood, 1950

= Radopholidae Allen & Sher, 1967

\*Subfamily PRATYLENCHINAE Thorne, 1949

= Radopholinae Allen & Sher, 1967

= Hoplotylinae Siddiqi, 1971

= Hirschmanniellinae Fotedar & Handoo, 1978

**Genera :**

\**Pratylenchus* Filip'ev, 1936

*Radopholus* Thorne, 1949

= *Radopholoides* de Guiran, 1967

= *Neoradopholus* Khan & Shakil, 1973

*Pratylenchoides* Winslow, 1958

= *Hoplorhynchus* Andrassy, 1985

*Hoplotylus* s'Jacob, 1960

*Zygotylenchus* Siddiqi, 1963

= *Mesotylus* de Guiran, 1964

*Hirschmanniella* Luc & Goodey, 1964

= *Hirschmannia* Luc & Goodey, 1962 *nec* Olofson, 1941 (Copepoda)

*Apratylenchoides* Sher, 1973

Subfamily NACOBBINAE Chitwood, 1950

**Genus :**

\**Nacobbus* Thorne & Allen, 1944

Family HOPLOLAIMIDAE Filip'ev, 1934

- = Nemonchidae Skarbilovich, 1959
- = Aphasmatylenchidae Sher, 1965
- = Rotylenchulidae Husain & Khan, 1965
- = Pararotylenchidae Baldwin & Bell, 1981 (n. syn.) [cf. Note N° 5]
- = Interrotylenchidae Eroshenko, 1984 (n. syn.) [cf. Note N° 6]

\*Subfamily HOPLOLAIMINAE Filip'ev, 1934

- = Rotylenchoidinae Whitehead, 1958
- = Nemonchinae Skarbilovich, 1959
- = Aphasmatylenchinae Sher, 1965
- = Rotylenchinae Golden, 1971
- = Pararotylenchinae Baldwin & Bell, 1981
- = Interrotylenchinae Eroshenko, 1984 (n. syn.) [cf. Note N° 6]
- = Scutellonemoidinae Eroshenko, 1984 (n. syn.) [cf. Note N° 6]

**Genera :**

- \**Hoplolaimus* von Daday, 1905
  - = *Nemonchus* Cobb, 1913
  - = *Hoplolaimoides* Shakil, 1973
  - = *Basirolaimus* Shamsi, 1979
- Rotylenchus* Filip'ev, 1936
  - = *Anguillulina* (*Rotylenchus*) Filip'ev, 1936
  - = *Gottholdsteineria* Andrassy, 1958
  - = *Orientalylus* Jairajpuri & Siddiqi, 1977
  - = *Calvatylus* Jairajpuri & Siddiqi, 1977
  - = *Interrotylenchus* Eroshenko, 1984 (n. syn.) [cf. Note N° 6]
  - = *Scutellonemoides* Eroshenko 1984 (n. syn.) [cf. Note N° 6]
  - = *Varotylus* Siddiqi, 1986
- Helicotylenchus* Steiner, 1945
  - = *Rotylenchoides* Whitehead, 1958
  - = *Zimmermannia* Shamsi, 1973
- Scutellonema* Andrassy, 1958
- Aorolaimus* Sher, 1963
  - = *Peltamigratus* Sher, 1964
  - = *Nectopelta* Siddiqi, 1986
- Aphasmatylenchus* Sher, 1965
- Antarctylus* Sher, 1973
- Pararotylenchus* Baldwin & Bell, 1981

Subfamily ROTYLENCHULINAE Husain & Khan, 1967

- = Acontylinae Fotedar & Handoo, 1978

**Genera :**

- \**Rotylenchulus* Lindford & Oliveira, 1940
  - = *Spirotylenchus* (= *Spyrotylenchus*) Lordello & Cesnik, 1958
  - = *Leiperotylenchus* Das, 1960
- Acontylus* Meagher, 1968
- Senegalonema* Germani, Luc & Baldwin, 1984

Family HETERODERIDAE Filip'ev & Schuurmans Stekhoven, 1941

- = Meloidogynidae Skarbilovich, 1959
- = Meloidoderidae Golden, 1971
- = Ataloderidae Wouts, 1973

\*Subfamily HETERODERINAE Filip'ev & Schuurmans Stekhoven, 1941

- = Meloidoderinae Golden, 1971
- = Ataloderinae Wouts, 1973
- = Sarisoderinae Husain, 1976
- = Punctoderinae Krall' & Krall', 1978
- = Verutinae Esser, 1981
- = Cryphoderinae Wouts, 1985

**Genera :**

- \**Heterodera* Schmidt, 1871
  - = *Tylenchus* (*Heterodera*) Schmidt, 1871
  - = *Heterodera* (*Heterodera*) Schmidt, 1871
  - = *Heterobolbus* Railliet, 1896
  - = *Bidera* Krall' & Krall', 1978
  - = *Ephippiodera* Shagalina & Krall', 1981
- Meloidodera* Chitwood, Hannon & Esser, 1956
- Globodera* Skarbilovich, 1959
- Cryphodera* Colbran, 1966
  - = *Zelandodera* Wouts, 1973
- Atalodera* Wouts & Sher, 1971
- Sarisodera* Wouts & Sher, 1971
  - = *Sherodera* Wouts, 1973
- Punctodera* Mulvey & Stone, 1976
- Cactodera* Krall' & Krall', 1978
- Hylonema* Luc, Taylor & Cadet, 1978
- Thecavermiculatus* Robbins, 1978
- Dolichodera* Mulvey & Ebsary, 1980
- Verutus* Esser, 1981
- Rhizonema* Cid del Prado Vera, Lownsbery & Maggenti, 1983
- Afenestrata* Baldwin & Bell, 1985
  - = *Afrodera* Wouts, 1985
- Bellodera* Wouts, 1985

Subfamily MELOIDOGYNINAE Skarbilovich, 1959

**Genus :**

- \**Meloidogyne* Goeldi, 1892
  - = *Caconema* Cobb, 1924
  - = *Hypsoperine* Sledge & Golden, 1964
  - = *Hypsoperine* (*Spartonema*) Siddiqi, 1986

**Genus dubium :**

- Meloidoderella* Khan & Husain, 1972 (in Meloidoderellinae Husain, 1976, *subfam. dub.*)

Subfamily NACOBODERINAE Golden & Jensen, 1974

- = Meloinematinae (= Meloineminae) Husain, 1976

**Genera :**

- Meloinema* Choi & Geraert, 1974
- \**Nacobbodera* Golden & Jensen, 1974
- Bursadera* Ivanova & Krall', 1985

Superfamily **Criconematoidea** Taylor, 1936  
 = Hemicycliophoroidea Skarbilovich, 1959  
 = Tylenchocriconematoidea Raski & Siddiqui, 1975

\*Family **CRICONEMATIDAE** Taylor, 1936  
 = Macroposthoniidae Skarbilovich, 1959  
 = Hemicycliophoridae Skarbilovich, 1959  
 = Madinematidae Khan, Chawla & Saha, 1975  
 = Caloosiidae Siddiqi, 1980

\*Subfamily **CRICONEMATINAE** Taylor, 1936  
 = Macroposthoniinae Skarbilovich, 1959  
 = Madinematinae Khan, Chawla & Saha, 1975  
 = Criconemellinae Khan & Saeed, 1985 (n. syn.)  
 [cf. Note N° 7]

**Genera :**

\**Criconema* Hofmänner & Menzel, 1914  
 = *Lobocriconema* De Grisse & Loof, 1965  
 = *Nothocriconema* De Grisse & Loof, 1965  
 = *Merocriconema* Raski & Pinochet, 1976  
 = *Nenocriconema* Darekar & Khan, 1981  
 = *Notholetus* Ebsary, 1981  
 = *Nothocriconemella* Ebsary, 1981  
 = *Paracriconema* Ebsary, 1981  
 = *Amphisbaenema* Orton Williams, 1982  
 = *Cerchnotocriconema* Bernard, 1982  
*Ogma* Southern, 1914  
 = *Criconema (Variasquamata)* Mehta & Raski, 1971  
 = *Variasquamata* Mehta & Raski, 1971 [cf. Note N° 8]  
 = *Crossonema* Mehta & Raski, 1971  
 = *Crossonema (Crossonema)* Mehta & Raski, 1971  
 = *Crossonema (Seriespinula)* Mehta & Raski, 1971  
 = *Seriespinula* Mehta & Raski, 1971 [cf. Note N° 8]  
 = *Neolobocriconema* Mehta & Raski, 1971  
 = *Croserinema* Khan, Chawla & Saha, 1976  
 = *Neocrossonema* Ebsary, 1981  
 = *Pseudocriconema* Minagawa, 1984  
 = *Syro* Orton Williams, 1985  
 = *Ogma (Homogma)* Siddiqui, 1986  
 = *Paralobocriconema* Minagawa, 1986  
 = *Macrocriconema* Minagawa, 1986

*Hemicriconemoides* Chitwood & Birchfield, 1957

*Bakernema* Wu, 1964

*Criconemella* De Grisse & Loof, 1965  
 = *Xenocriconemella* De Grisse & Loof, 1965  
 = *Mesocriconema* Andrassy, 1965 [cf. Note N° 9]  
 = *Madinema* Khan, Chawla & Saha, 1976 [cf. Note N° 9]  
 = *Seshadriella* Darekar & Khan, 1981  
 = *Neobakernema* Ebsary, 1981  
 = *Crossonemoides* Eroshenko, 1981

*Discocriconemella* De Grisse & Loof, 1965  
 = *Neocriconema* Diab & Jenkins, 1965 [cf. Note N° 9]  
 = *Acrozostron* Orton Williams, 1981

*Nothocriconemoides* Maas, Loof & De Grisse, 1971

*Blandicephalanema* Mehta & Raski, 1971

*Pateracephalanema* Mehta & Raski, 1971  
 = *Pateracephalanema (Pellipecten)* Siddiqui, 1986

**Genera dubia :**

*Macroposthonia* de Man, 1921

*Criconemoides* Taylor, 1936

Subfamily **HEMICYCLIOPHORINAE** Skarbilovich, 1959

**Genera :**

\**Hemicycliophora* de Man, 1921  
 = *Procriconema* Micoletzky, 1925  
 = *Colbranium* Andrassy, 1979  
 = *Aulosphora* Siddiqi, 1980  
 = *Loofia* Siddiqi, 1980  
*Caloosia* Siddiqi & Goodey, 1964  
 = *Hemicaloosia* Ray & Das, 1978

Family **TYLENCHULIDAE** Skarbilovich, 1947

= Paratylenchidae Thorne, 1949  
 = Sphaeronematidae Raski & Sher, 1952  
 = Meloidoderitidae Kir'yanova & Pogosyan, 1973  
 = Tylenchocriconematidae Raski & Siddiqui, 1975

\*Subfamily **TYLENCHULINAE** Skarbilovich, 1947

= Sphaeronematinae Raski & Sher, 1952

**Genera :**

\**Tylenchulus* Cobb, 1913  
*Sphaeronema* Raski & Sher, 1952  
 = *Goodeyella* Siddiqi, 1986  
 = *Tumiota* Siddiqi, 1986  
*Trophotylenchulus* Raski, 1957 [cf. Note N° 10]  
 = *Ivotylenchulus* Hashim, 1984 [cf. Note N° 10]  
*Trophonema* Raski, 1957  
*Meloidoderita* Pogosyan, 1966

Subfamily **PARATYLENCHINAE** Thorne, 1949

**Genera :**

\**Paratylenchus* Micoletzky, 1922  
 = *Paratylenchoides* Raski, 1973  
*Cacopaurus* Thorne, 1943  
*Gracilacus* Raski, 1962

Subfamily **TYLENCHOCRICONEMATINAE** Raski & Siddiqui, 1975

**Genus :**

\**Tylenchocriconema* Raski & Siddiqui, 1975

## TAXONOMIC NOTES

### Note N° 1

Ebsary (1986) proposed the genus *Ceramotylenchus* (type and only species : *C. tessellatus* Ebsary, 1986) for a single female; the specific name *tessellatus* refers to the cuticular structure ("... cuticular blocks arranged in alternating rows..."). The published drawing are insufficient but the light microscope photographs clearly show the zigzag structure of the body cuticle characteristic of *Miculenchus* (cf. Raski & Geraert, 1985).

*Ceramotylenchus* Ebsary, 1986 is here proposed as a junior synonym of *Miculenchus* Andrásy, 1959. The species *C. tessellatus* is transferred and becomes *M. tessellatus* (Ebsary, 1986) n. comb. It differs from the two known species by shorter body and longer stylet.

#### Note No 2

Siddiqi (1986) proposed the genus *Mukazia* with *Malenchus novus* Mukhina & Kazachenko, 1981 as type and only species. This new genus was not taken into consideration in the reappraisal of the family Tylenchidae (Geraert & Raski, 1987), although it has been mentioned in a note in an earlier revision of the genus *Malenchus* (Geraert & Raski, 1986). *M. nova* presents a weakly developed medium oesophageal bulb, markedly more posterior (MB = 50 - 53 %) than in *Malenchus* (MB = 42 - 50 %); moreover the annuli do not differ before and after the end of the lateral field as in *Malenchus*. Mukhina and Kazachenko's (1981) very detailed drawings suggest their species belongs to *Miculenchus* Andrásy, 1951 mainly because of the value of MB and the deep incisures. The lateral-ventral view of the male tail shows small but distinct caudal alae. *Miculenchus elegans* Raski & Geraert, 1985 has similar measurement but the male is unknown. The absence of caudal alae (in the type species, *M. salvus*) being until now a generic characteristic of *Miculenchus*, *Mukazia* is considered a valid genus, close to, but distinct from *Miculenchus*.

#### Note No 3

Jahan (1986) proposed the genus *Pseudobasiria* for *Basiroides sindhicus* Maqbool, Fatima & Shahina, 1984, type and only species. Siddiqi (1986) considered *B. sindhicus* a junior synonym of *Basiria ritteri* (Baqri & Jairajpuri, 1969) Bernard, 1980. We agree with this action as the characters on which is based *Pseudobasiria* (absence of phasmids, tail deeply annulated and tail terminus slightly different from that of *Basiroides*) appear not sufficiently founded and/or important to be taken into consideration at generic level. So we consider *Pseudobasiria* Jahan, 1986 as a junior synonym of *Basiria* Siddiqi, 1959.

#### Note No 4

Luc and Fortuner (1987) considered the genus *Brachydorus* as *genus dubium* essentially because of lack of information concerning the morphology of the face, a character considered as essential for the separation of the two other genera of the family, *Dolichodoros* and *Neodolichodoros*. SEM examination of *Brachydorus swarupi*

revealed a unique structure of the face, rather different from those observed in the two other genera (Raski & Luc, in press). Consequently, *Brachydorus* is considered a valid genus in Dolichodoridae.

#### Note No 5

Eroshenko (1984) elevated Pararotylenchinae Baldwin & Bell, 1981 to family rank, and placed this family in Tylenchoidea because of the abutting oesophageal glands not overlapping the intestine and the absence of oesophago-intestinal valve.

As discussed by the original authors (Baldwin & Bell, 1981) and by Fortuner (1987), *Pararotylenchus* shares many derived characters with the traditional hoplolaimids. It does share some ancestral characteristics of Belonolaimidae, however, classifications should be based only on shared derived characteristics, and not on shared ancestral characteristics. The genus *Pararotylenchus* is confirmed as a member of the family Hoplolaimidae. The subfamily Pararotylenchinae was rejected by Fortuner (1987).

Within Hoplolaimidae, there is a structural difference between *Rotylenchus* with oesophageal lumen shifted ventrally between the two subventral glands, and *Pararotylenchus* with lumen not shifted. This difference is considered to be diagnostic at generic level only (see Fortuner, 1987), and the family and subfamily Pararotylenchidae and Pararotylenchinae are here rejected.

#### Note No 6

Eroshenko (1984) proposed the family Interrotylenchidae, with two subfamilies, Interrotylenchinae (type and only genus *Interrotylenchus*) and Scutellonemoidinae (type and only genus *Scutellonemoides*) in the superfamily Hoplolaimoidea (here = Tylenchoidea). The new genera include several species previously in *Rotylenchus*: four known and a new species in *Interrotylenchus*; one known species in *Scutellonemoides*.

The family Interrotylenchidae was diagnosed by Eroshenko (1984) as having a mixture of hoplolaimoid characteristics (anterior extremity with strong sclerotization, short tail, phasmids sometimes scutelliform) and tylenchoid characteristics (oesophageal glands compact, in the shape of a pear-like bulb). The same mixture of characteristics was used by Baldwin and Bell (1981) in the diagnosis of Pararotylenchinae (see above). Both Interrotylenchidae and Pararotylenchinae differ from the genus *Rotylenchus* in Hoplolaiminae only by the structure of the oesophageal glands. To avoid an unnecessary inflation in the number of families, Interrotylenchidae and its subfamilies Interrotylenchinae and Scutellonemoidinae, are here rejected.

In contradiction with the diagnosis of the family Interrotylemidae (supposedly with pear shaped glandular "bulb"), the two genera *Interrotylemichus* and *Scutellonemoides* were described by Eroshenko (1984) with dorsal gland slightly overlapping the intestine. This characteristic seems to be the main difference with *Rotylemichus s. str.* with longer glandular overlap. In addition, *Scutellonemoides* is said to have larger phasmids.

The relative length of the dorsal gland overlap can be described by the overlap coefficient proposed by de Guiran and Siddiqi (1967) and equal to :

$$\frac{\text{distance oesophago-intestinal junction} - \text{end of glands}}{\text{distance posterior end of median bulb} - \text{end of glands}} \times 100$$

This percentage, calculated from figures in the original descriptions, is 10 to 30 % in the species placed by Eroshenko (1984) in the new genera (*I. breviglans* 10 %; *I. quartus* 25 %; *S. feroxcis* 15 to 33 %, etc.). It is quite variable in species in *Rotylemichus s. str.*, from 8 % in *R. pini*, 20 % in *R. neorobustus* to 40-50 % in many species including *R. robustus*, the type species, and it can reach 60 % (*R. eximius*) to 66 % (*R. calvus*). Because no clear division exists in the gradual lengthening of the glands, this characteristic does not justify the creation of separate genera.

Some species now in *Rotylemichus* were originally described in *Scutellonema* because of large phasmids (i.e. *R. impar*, *R. inciscaudatus*, *R. insularis*, *R. minutus*, etc.) In these species, and in *R. feroxcis*, type and only species of *Scutellonemoides*, the diameter of the phasmid does not exceed the width of the central band of the lateral field, and it does not interrupt nor bend the inner lateral field lines. A small difference in size is not considered to be relevant for generic diagnosis.

As a consequence of the above, we propose :

- Interrotylemidae Eroshenko, 1984 is considered a junior synonym of Hoplolaimidae Filip'ev, 1934;
- Interrotylemichinae Eroshenko, 1984 and Scutelloneminae Eroshenko, 1984 are considered junior synonyms of Hoplolaiminae Filip'ev, 1934;
- *Interrotylemichus* Eroshenko, 1984 and *Scutellonemoides* Eroshenko, 1984, are considered junior synonyms of *Rotylemichus* Filip'ev, 1936;
- The following species are returned or transferred to the genus *Rotylemichus*, with the following new synonymizations :

- Rotylemichus agnetis* Szczygiel, 1968
- = *Interrotylemichus agnetis* (Szczygiel, 1968) Eroshenko, 1984
- R. arsenjevi* (Eroshenko, 1984) nov. comb.
- = *I. arsenjevi* Eroshenko, 1984
- R. breviglans* Sher, 1965
- = *I. breviglans* (Sher, 1965) Eroshenko, 1984
- R. capitatus* Eroshenko, 1981
- = *I. capitatus* (Eroshenko, 1981) Eroshenko 1984
- R. feroxcis* Eroshenko, 1981

= *Scutellonemoides feroxcis* (Eroshenko, 1981) Eroshenko, 1984

*R. quartus* (Andrássy, 1958) Sher, 1961

= *I. quartus* (Andrássy, 1958) Eroshenko, 1984

#### Note N° 7

Khan and Saeed (1985) proposed a new taxon, the subfamily Criconemellinae, with type genus *Criconemella*. No other genera are placed in that subfamily which is said to differ from Criconematinae by : i) the lower number of annuli in female (42-200 vs more than 200 in Criconematinae; ii) the male with or without lateral field vs « usually present » in Criconematinae! A key of the subfamilies of Criconematidae is given in which Criconemellinae keys with « female usually 200 or more than 200 annules »! Consequently Criconemellinae is considered a junior synonym of Criconematinae.

#### Note N° 8

According to the principle of coordination [Intern. Code zool. Nomencl., Art. 43 (a)] a subgenus elevated to generic rank keeps the original authority of the subgenus. Consequently the authorities for genera *Serispinula* and *Variasquamata* have been modified as indicated.

#### Note N° 9

In Luc and Raski (1987) reappraisal of Criconematodea, the genera *Mesocriconema*, *Neocriconema* and *Madinema* have been placed twice as junior synonyms *pro parte* of both the genera *Criconemella* and *Discocriconemella*, because their species have been reverted or transferred to either one of the latter two genera. This was not a correct nomenclatural statement as a genus must follow its type species. Consequently *Mesocriconema* (type species *Criconemella pruni*) and *Madinema* (type species : *Criconemella maglia*) are proposed as junior synonyms of *Criconemella*, whereas *Neocriconema* (type species *Discocriconemella limitanea*) is proposed as junior synonym of *Discocriconemella*.

#### Note N° 10

*Ivotylemichulus* was described by Hashim in a journal dated 1983, but published on 23 Jan. 1984; so the correct authority is : *Ivotylemichulus* Hashim, 1984. In the same article Hashim (1984) transferred *Tylenchulus clavicaudatus* and *T. obscurus* to the genus *Trophotylemichulus*. He was given credit for this transfer in Raski and Luc (1987). This was an error, as Cohn and Kaplan independently proposed the same transfer in a journal published

on 16 Dec. 1983. So these latter authors must be given credit for the transfer. To avoid confusion, the nomenclatural data concerning the genus and its species are recapped below :

***Trophotylenchulus*** Raski, 1957  
= *Ivotylenchulus* Hashim, 1984

TYPE SPECIES :

*Trophotylenchulus floridensis* Raski, 1957  
= *Tylenchulus floridensis* (Raski, 1957) Maggenti, 1962

OTHER SPECIES :

*T. andhraensis* Muthukrishnan & Shariff, 1986  
*T. clavicaudatus* (Colbran, 1966) Cohn & Kaplan, 1983  
= *Tyl. clavicaudatus* Colbran, 1966  
*T. mangeloti* (Luc, 1957) Goodey, 1963  
= *Tyl. mangeloti* Luc, 1957  
= *Ivotylenchulus mangeloti* (Luc, 1957) Hashim, 1984  
*T. obscurus* (Colbran, 1961) Cohn & Kaplan, 1983  
= *Tyl. obscurus* Colbran, 1961  
*T. piperis* Mohandas, Ravana & Raski, 1985  
*T. saltensis* Hashim, 1984

ALPHABETIC REPERTORY OF  
GENERIC AND SUPRAGENERIC TAXA  
OF THE SUBORDER TYLENCHINA

Acontylinae : syn. of Rotylenchulinae  
*Acontylus* : Rotylenchulinae, Hoplolaimidae  
*Acrozostron* : syn. of *Discocriconemella*  
*Aerotylenchus* : syn. of *Tylenchus*  
*Afenestrata* : Heteroderinae, Heteroderidae  
*Afrina* : syn. of *Subanguina*  
*Afrodera* : syn. of *Afenestrata*  
Aglenchinae : syn. of Atylenchinae  
*Aglenchus* : Atylenchinae, Tylenchidae  
*Allotylenchus* : Tylenchinae, Tylenchidae  
*Amphisbaenema* : syn. of *Criconema*  
*Amplimerlinius* : Telotylenchinae, Belonolaimidae  
*Anguillulina* : syn. of *Anguina*  
*Anguillulina (Anguina)* : syn. of *Anguina*  
*Anguillulina (Ditylenchus)* : syn. of *Ditylenchus*  
*Anguillulina (Rotylenchus)* : syn. of *Rotylenchus*  
Anguillulinidae : syn. of Anguinidae  
Anguillulininae : syn. of Anguinidae  
*Anguina* : Anguinidae  
Anguinidae : Tylenchoidea  
Antarctenchinae : syn. of Atylenchinae  
*Antarctenchus* : Atylenchinae, Tylenchidae  
*Antarctylus* : Hoplolaiminae, Hoplolaimidae

*Aorolaimus* : Hoplolaiminae, Hoplolaimidae  
Aphasmatylenchidae : syn. of Hoplolaimidae  
Aphasmatylenchinae : syn. of Hoplolaiminae  
*Aphasmatylenchus* : Hoplolaiminae, Hoplolaimidae  
*Apratylenchoidea* : Pratylenchinae, Pratylenchidae  
*Atalodera* : Heteroderinae, Heteroderidae  
Ataloderidae : syn. of Heteroderidae  
Ataloderinae : syn. of Heteroderinae  
*Atetylenchus* : Boleodorinae, Tylenchidae  
Atylenchidae : syn. of Tylenchidae  
Atylenchinae : Tylenchidae, Tylenchoidea  
Atylenchoidea : syn. of Tylenchoidea  
*Atylenchus* : Atylenchinae, Tylenchidae  
*Aulosphora* : syn. of *Hemicyclophora*

*Bakernema* : Criconematinae, Criconematidae  
*Basiliophora* : gen. dub. in Boleodorinae, Tylenchidae  
*Basiria* : Boleodorinae, Tylenchidae  
*Basirienchus* : Boleodorinae, Tylenchidae  
Basiriinae : syn. of Boleodorinae  
*Basiroides* : syn. of *Basiria*  
*Basirrolaimus* : syn. of *Hoplolaimus*  
*Bellodera* : Heteroderinae, Heteroderidae  
Belonolaimidae : Tylenchoidea  
Belonolaiminae : Belonolaimidae, Tylenchoidea  
*Belonolaimus* : Belonolaiminae, Belonolaimidae  
*Bidera* : syn. of *Heterodera*  
*Bitylenchus* : syn. of *Tylenchorhynchus*  
*Blandicephalanema* : Criconematinae, Criconematidae  
Boleodoridae : syn. of Tylenchidae  
Boleodorinae : Tylenchidae, Tylenchoidea  
*Boleodoroides* : syn. of *Ditylenchus*  
*Boleodorus* : Boleodorinae, Tylenchidae  
*Brachydorus* : Dolichodoridae  
*Bursadera* : Nacobboderinae, Heteroderidae

*Caconema* : syn. of *Meloidogyne*  
*Cacopaurus* : Paratylenchinae, Tylenchulidae  
*Cactodera* : Heteroderinae, Heteroderidae  
*Caloosia* : Hemicyclophorinae, Criconematidae  
Caloosiidae : syn. of Criconematidae  
*Calvatylus* : syn. of *Rotylenchus*  
Campbellenchinae : syn. of Tyloporinae  
*Campbellenchus* : Tyloporinae, Tylenchidae  
*Carphodorus* : Belonolaiminae, Belonolaimidae  
*Cephalenchus* : Tyloporinae, Tylenchidae  
*Ceramotylenchus* : syn. of *Miculenchus*  
*Cerchnotocriconema* : syn. of *Criconema*  
*Chitinotylenchus* : inc. sed. in Anguinidae  
*Clavaurotylenchus* : syn. of *Trophurus*  
*Clavilenchus* : syn. of *Basiria*  
*Colbranium* : syn. of *Hemicyclophora*  
*Cosaglenchus* : syn. of *Coslenchus*  
*Coslenchus* : Atylenchinae, Tylenchidae  
*Criconema* : Criconematinae, Criconematidae  
*Criconema (Variasquamata)* : syn. of *Osma*  
Criconematidae : Criconematoidea  
Criconematina : syn. of Tylenchina  
Criconematinae : Criconematidae, Criconematoidea  
Criconematoidea : Tylenchina



- Criconemella* : Criconematinae, Criconematidae  
 Criconemellinae : syn. of Criconematinae  
*Criconemoides* : gen. dub. in Criconematinae  
*Croserinema* : syn. of *Ogma*  
*Crossonema* : syn. of *Ogma*  
*Crossonema* (*Crossonema*) : syn. of *Ogma*  
*Crossonema* (*Seriespinula*) : syn. of *Ogma*  
*Crossonemoides* : syn. of *Criconemella*  
*Cucullitylenchus* : Tylenchinae, Tylenchidae  
*Cryphodera* : Heteroderinae, Heteroderidae  
 Cryphoderinae : syn. of Heteroderinae  
*Cynipanguina* : Anguinidae  
 Cynipanguininae : syn. of Anguinidae  
  
 Dactylotylenchinae : syn. of Tylenchinae  
*Dactylotylenchus* : syn. of *Filenchus*  
*Diptenchus* : syn. of *Ditylenchus*  
*Discocriconemella* : Criconematinae, Criconematidae  
*Discotylenchus* : syn. of *Filenchus*  
 Ditylenchidae : syn. of Anguinidae  
 Ditylenchinae : syn. of Anguinidae  
*Ditylenchus* : Anguinidae  
*Divittus* : syn. of *Tylenchorhynchus*  
*Dolichodera* : Heteroderinae, Heteroderidae  
 Dolichodoridae : Tylenchoidea  
 Dolichodoroidea : syn. of Tylenchoidea  
*Dolichodorus* : Dolichodoridae  
*Dolichorhynchus* : syn. of *Tylenchorhynchus*  
 Duosulciinae : syn. of Tylenchinae  
*Duosulcius* : syn. of *Filenchus*  
*Duotylenchus* : Boleodorinae, Tylenchidae  
  
*Ecphyadophora* : Ecphyadophorinae, Tylenchidae  
 Ecphyadophoridae : syn. of Tylenchidae  
 Ecphyadophorinae : Tylenchidae, Tylenchoidea  
*Ecphyadophoroides* : Ecphyadophorinae, Tylenchidae  
 Ecphyadophoroidinae : syn. of Ecphyadophorinae  
*Ephippiodera* : syn. of *Heterodera*  
*Epicharinema* : Ecphyadophorinae, Tylenchidae  
 Epicharinematinae : syn. of Ecphyadophorinae  
 Eutylenchinae : syn. of Tyldorinae  
*Eutylenchus* : Tyldorinae, Tylenchidae  
  
*Filenchus* : Tylenchinae, Tylenchidae  
  
*Geocenamus* : Belonolaiminae, Belonolaimidae  
*Globodera* : Heteroderinae, Heteroderidae  
*Goodeyella* : syn. of *Sphaeronema*  
*Gottholdsteineria* : syn. of *Rotylenchus*  
*Gracilacus* : Paratylenchinae, Tylenchulidae  
*Gracilancea* : Atylenchinae, Tylenchidae  
  
 Halenchidae : syn. of Anguinidae  
 Halenchinae : syn. of Anguinidae  
*Halenchus* : Anguinidae  
*Helicotylenchus* : Hoplolaiminae, Hoplolaimidae  
*Hemicaloosia* : syn. of *Caloosia*  
*Hemicriconemoides* : Criconematinae, Criconematidae  
*Hemicyclophora* : Hemicyclophorinae, Criconematidae  
 Hemicyclophoridae : syn. of Criconematidae  
 Hemicyclophorinae : Criconematidae, Criconematoidea  
 Hemicyclophoroidea : syn. of Criconematoidea  
  
*Heteroanguina* : syn. of *Subanguina*  
*Heterobolbus* : syn. of *Heterodera*  
*Heterodera* (*Heterodera*) : syn. of *Heterodera*  
*Heterodera* (*Heterodera*) : syn. of *Heterodera*  
 Heteroderidae : Tylenchoidea  
 Heteroderina : syn. of Tylenchina  
 Heteroderinae : Heteroderidae, Tylenchoidea  
 Heteroderoidea : syn. of Tylenchoidea  
*Hexadorus* : syn. of *Geocenamus*  
*Hirschmannia* : syn. of *Hirschmanniella*  
*Hirschmanniella* : Pratylenchinae, Pratylenchidae  
 Hirschmanniellinae : syn. of Pratylenchinae  
*Histotylenchus* : syn. of *Paratrophurus*  
 Hoplolaimidae : Tylenchoidea  
 Hoplolaiminae : Hoplolaimidae, Tylenchoidea  
 Hoplolaimoidea : syn. of Tylenchoidea  
*Hoplolaimoides* : syn. of *Hoplolaimus*  
*Hoplolaimus* : Hoplolaiminae, Hoplolaimidae  
*Hoplorhynchus* : syn. of *Pratylenchoides*  
 Hoplotylinae : syn. of Pratylenchinae  
*Hoplotylus* : Pratylenchinae, Pratylenchidae  
*Hylonema* : Heteroderinae, Heteroderidae  
*Hypsoperine* : syn. of *Meloidogyne*  
*Hypsoperine* (*Spartonema*) : syn. of *Meloidogyne*  
  
*Ibipora* : syn. of *Belonolaimus*  
*Imphalenchus* : syn. of *Cephalenchus*  
 Interrotylenchinae : syn. of Hoplolaiminae  
 Interrotylenchidae : syn. of Hoplolaimidae  
*Interrotylenchus* : syn. of *Rotylenchus*  
*Irantylenchus* : Tylenchinae, Tylenchidae  
*Ivotylenchulus* : syn. of *Trophotylenchulus*  
  
*Karachinema* : syn. of *Ecphyadophora*  
  
*Lambertia* : syn. of *Filenchus*  
*Leiperotylenchus* : syn. of *Rotylenchulus*  
 Leipotylenchinae : syn. of Boleodorinae  
*Leipotylenchus* : syn. of *Atetylenchus*  
*Lelenchus* : Ecphyadophorinae, Tylenchidae  
*Lobocriconema* : syn. of *Criconema*  
*Loofia* : syn. of *Hemicyclophora*  
*Luella* : inc. sed. in Boleodorinae, Tylenchidae  
  
*Macrocriconema* : syn. of *Ogma*  
*Macroposthonia* : gen. dub. in Criconematinae  
 Macroposthoniidae : syn. of Criconematidae  
 Macroposthoniinae : syn. of Criconematinae  
*Macrotrophurus* : Tyldorinae, Tylenchidae  
*Madinema* : syn. of *Criconemella*  
 Madinematidae : syn. of Criconematidae  
 Madinematinae : syn. of Criconematinae  
*Malenchus* : Tylenchinae, Tylenchidae  
 Meiodorinae : syn. of Telotylenchinae  
*Meiodorus* : syn. of *Triversus*  
*Meloidodera* : Heteroderinae, Heteroderidae  
*Meloidoderella* : gen. dub. in Meloidogyninae  
 Meloidoderellinae : subfam. dub. in Heteroderidae  
 Meloidoderidae : syn. of Heteroderidae  
 Meloidoderinae : syn. of Heteroderinae  
*Meloidoderita* : Tylenchulinae, Tylenchulidae

- Meloidoderitidae : syn. of Tylenchulidae  
*Meloidogyne* : Meloidogyninae, Heteroderidae  
Meloidogynidae : syn. of Heteroderidae  
Meloidogyninae : Heteroderidae, Tylenchoidea  
*Meloinema* : Nacobboderinae, Heteroderidae  
Meloinematinae : syn. of Nacobboderinae  
Meloineminae : see Meloinematinae  
Merliniinae : syn. of Telotylenchinae  
*Merlinius* : Telotylenchinae, Belonolaimidae  
*Merocriconema* : syn. of *Criconema*  
*Mesoanguina* : syn. of *Subanguina*  
*Mesocriconema* : syn. of *Criconemella*  
*Mesotylus* : syn. of *Zygotylenchus*  
*Miculenchus* : Tylenchinae, Tylenchidae  
*Mitranema* : Ecphyadophorinae, Tylenchidae  
*Morasinema* : syn. of *Tylenchorhynchus*  
*Morulaimus* : Belonolaiminae, Belonolaimidae  
*Mukazia* : Tylenchinae, Tylenchidae  
*Mulveyotus* : syn. of *Triversus*
- Nacobbidae : syn. of Pratylenchidae  
Nacobbinae : Pratylenchidae, Tylenchoidea  
*Nacobbodera* : Nacobboderinae, Heteroderidae  
Nacobboderinae : Heteroderidae, Tylenchoidea  
*Nacobbus* : Nacobbinae, Pratylenchidae  
*Nagelus* : Telotylenchinae, Belonolaimidae  
*Nectopelta* : syn. of *Aorolaimus*  
Nemonchidae : syn. of Hoplolaimidae  
Nemonchinae : syn. of Hoplolaiminae  
*Nemonchus* : syn. of *Hoplolaimus*  
*Nenocriconema* : syn. of *Criconema*  
*Neobakernema* : syn. of *Criconemella*  
*Neobasiria* : syn. of *Basiria*  
*Neocriconema* : syn. of *Discocriconemella*  
*Neocrossonema* : syn. of *Ogma*  
Neoditylenchinae : syn. of Anguinidae  
*Neoditylenchus* : syn. of *Sychnotylenchus*  
*Neodolichodorus* : Dolichodoridae  
*Neodolichorhynchus* : syn. of *Tylenchorhynchus*  
*Neolobocriconema* : syn. of *Ogma*  
*Neomalenchus* : syn. of *Malenchus*  
*Neopsilenchus* : Boleodorinae, Tylenchidae  
*Neoradopholus* : syn. of *Radopholus*  
*Neothada* : Boleodorinae, Tylenchidae  
*Nothanguina* : syn. of *Anguina*  
Nothanguinidae : syn. of Anguinidae  
Nothanguininae : syn. of Anguinidae  
*Nothocriconema* : syn. of *Criconema*  
*Nothocriconemella* : syn. of *Criconema*  
*Nothocriconemoides* : Criconematinae, Criconematidae  
*Notholetus* : syn. of *Criconema*  
Nothotylenchidae : syn. of Anguinidae  
Nothotylenchinae : syn. of Anguinidae  
*Nothotylenchus* : syn. of *Ditylenchus*
- Ogma* : Criconematinae, Criconematidae  
*Ogma (Homogma)* : syn. of *Ogma*  
*Orientalylus* : syn. of *Rotylenchus*  
*Orrina* : syn. of *Anguina*  
*Ottolenchus* : syn. of *Filenchus*
- Paktylenchus* : syn. of *Coslenchus*  
*Paracriconema* : syn. of *Criconema*  
*Paralobocriconema* : syn. of *Ogma*  
*Paranguina* : syn. of *Anguina*  
Pararotylenchidae : syn. of Hoplolaimidae  
Pararotylenchinae : syn. of Hoplolaiminae  
*Pararotylenchus* : Hoplolaiminae, Hoplolaimidae  
*Paratrophurus* : Telotylenchinae, Belonolaimidae  
Paratylenchidae : syn. of Tylenchulidae  
Paratylenchinae : Tylenchulidae, Criconematoidea  
*Paratylenchoides* : syn. of *Paratylenchus*  
*Paratylenchus* : Paratylenchinae, Tylenchulidae  
*Pateracephalanema* : Criconematinae, Criconematidae  
*Pateracephalanema (Pellipecten)* : syn. of *Pateracephalanema*  
*Peltamigratus* : syn. of *Aorolaimus*  
*Plesiodorus* : syn. of *Neodolichodorus*  
Pleurotylenchinae : syn. of Atylenchinae  
*Pleurotylenchus* : Atylenchinae, Tylenchidae  
*Polenchus* : Tylenchinae, Tylenchidae  
Pratylenchidae : Tylenchoidea  
Pratylenchinae : Pratylenchidae, Tylenchoidea  
*Pratylenchoides* : Pratylenchinae, Pratylenchidae  
*Pratylenchus* : Pratylenchinae, Pratylenchidae  
*Proccriconema* : syn. of *Hemicyclophora*  
Pseudhalenchinae : syn. of Anguinidae  
*Pseudhalenchus* : Anguinidae  
*Pseudobasiria* : syn. of *Basiria*  
*Pseudocriconema* : syn. of *Ogma*  
Psilenchinae : syn. of Boleodorinae  
*Psilenchus* : Boleodorinae, Tylenchidae  
*Pterotylenchus* : Anguinidae  
*Punctodera* : Heteroderinae, Heteroderidae  
Punctoderinae : syn. of Heteroderinae
- Quinisulcius* : syn. of *Tylenchorhynchus*
- Radopholidae : syn. of Pratylenchidae  
Radopholinae : syn. of Pratylenchinae  
*Radopholoides* : syn. of *Radopholus*  
*Radopholus* : Pratylenchinae, Pratylenchidae  
*Rhizonema* : Heteroderinae, Heteroderidae  
Rotylenchinae : syn. of Hoplolaiminae  
*Rotylenchoides* : syn. of *Helicotylenchus*  
Rotylenchoidinae : syn. of Hoplolaiminae  
Rotylenchulidae : syn. of Hoplolaimidae  
Rotylenchulinae : Hoplolaimidae, Tylenchoidea  
*Rotylenchulus* : Rotylenchulinae, Hoplolaimidae  
*Rotylenchus* : Hoplolaiminae, Hoplolaimidae
- Safianema* : syn. of *Ditylenchus*  
*Sakia* : gen. dub. in Boleodorinae, Tylenchidae  
*Sarisodera* : Heteroderinae, Heteroderidae  
Sarisoderinae : syn. of Heteroderinae  
*Sauertylenchus* : Belonolaiminae, Belonolaimidae  
*Scutellonema* : Hoplolaiminae, Hoplolaimidae  
*Scutellonemoides* : syn. of *Rotylenchus*  
Scutellonemoidinae : syn. of Hoplolaiminae  
*Scutylenchus* : syn. of *Merlinius*  
*Senegalonema* : Rotylenchulinae, Hoplolaimidae  
*Seriespinula* : syn. of *Ogma*  
*Seshadriella* : syn. of *Criconemella*

*Sherodera* : syn. of *Atalodera*  
*Sphaeronema* : Tylenchulinae, Tylenchulidae  
 Sphaeronematidae : syn. of Tylenchulidae  
 Sphaeronematinae : syn. of Tylenchulinae  
*Spirotylechus* : syn. of *Rotylechus*  
*Spyrotylechus* : see *Spirotylechus*  
*Subanguina* : Anguinidae  
 Sychnotylechidae : syn. of Anguinidae  
 Sychnotylechinae : syn. of Anguinidae  
*Sychnotylechus* : Anguinidae  
*Syro* : syn. of *Ogma*  
 Telotylechidae : syn. of Belonolaimidae  
 Telotylechinae : Belonolaimidae, Tylenchoidea  
*Telotylechoides* : syn. of *Paratrophurus*  
*Telotylechus* : syn. of *Tylenchorhynchus*  
*Tenunemellus* : syn. of *Ecphyadophoroides*  
*Tessellus* : syn. of *Tylenchorhynchus*  
 Tetylenchinae : syn. of Telotylechinae  
*Tetylenchus* : gen. dub. in Telotylechinae, Belonolaimidae  
*Thada* : Anguinidae  
 Thadinae : syn. of Anguinidae  
*Thecavermiculatus* : Heteroderinae, Heteroderidae  
*Trichotylechus* : Telotylechinae, Belonolaimidae  
*Trilineellus* : syn. of *Tylenchorhynchus*  
*Triversus* : Telotylechinae, Belonolaimidae  
*Trophonema* : Tylenchulinae, Tylenchulidae  
*Trophotylechulus* : Tylenchulinae, Tylenchulidae  
 Trophurinae : syn. of Telotylechinae  
*Trophurus* : Telotylechinae, Belonolaimidae  
*Tumiota* : syn. of *Sphaeronema*  
 Tylenchidae : Tylenchoidea  
 Tylenchina : Nemata  
 Tylenchinae : Tylenchidae, Tylenchoidea  
*Tylenchocriconema* : Tylenchocriconematinae, Tylenchulidae  
 Tylenchocriconematidae : syn. of Tylenchulidae  
 Tylenchocriconematinae : Tylenchulidae, Criconematoidea  
 Tylenchocriconematoidea : syn. of Criconematoidea  
 Tylenchoidea : Tylenchina  
 Tylenchorhynchidae : syn. of Belonolaimidae  
 Tylenchorhynchinae : syn. of Telotylechinae  
*Tylenchorhynchus* : Telotylechinae, Belonolaimidae  
 Tylenchulidae : Criconematoidea  
 Tylenchulinae : Tylenchulidae, Criconematoidea  
*Tylenchulus* : Tylenchulinae, Tylenchulidae  
*Tylenchus* : Tylenchinae, Tylenchidae  
*Tylenchus (Heterodera)* : syn. of *Heterodera*  
*Tylenchus (Lelenchus)* : syn. of *Lelenchus*  
 Tylodoridae : syn. of Tylenchidae  
 Tylodorinae : Tylenchidae, Tylenchoidea  
*Tylodorus* : Tylodorinae, Tylenchidae  
*Uliginotylechus* : syn. of *Trichotylechus*  
*Variasquamata* : syn. of *Ogma*  
*Varotylus* : syn. of *Rotylechus*  
 Verutinae : syn. of Heteroderinae  
*Verutus* : Heteroderinae, Heteroderidae  
*Xenocriconemella* : syn. of *Criconemella*  
*Zanenchus* : syn. of *Filenchus*

*Zelandodera* : syn. of *Cryphodera*  
*Zimmermannia* : syn. of *Helicotylechus*  
*Zygotylechus* : Pratylenchinae, Pratylenchidae

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