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Centro de Estudos do Mar (CEM), Universidade Federal do Paraná (UFPR)  
Linha de pesquisa: Meiofauna estuarina de bancos não vegetados: variabilidade horizontal e vertical  
Desenvolvimento do Projeto: Centro de Biologia Marinha (CEBIMar), Universidade de São Paulo (USP),  
São Sebastião-SP  
Orientador: Dr. Gustavo Fernandes Camargo Fonseca.

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## Meus Exercícios

[exec](#)

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## Proposta Trabalho Final

### PLANO A

Criar duas funções em R, que possuam em sua sintaxe uma lista atualizada de gêneros de nematóides marinhos de vida livre, de modo que:

Função 1 : Verifique possíveis erros ortográficos nos gêneros em uma tabela de dados.

Função 2 : Classifique os gêneros em guildas alimentares numa tabela de dados.

### PLANO B

A identificação de nematóides marinhos de vida livre, a nível de gênero, é realizada principalmente através de chaves pictoriais (Warwick et al. 1998), que levam consideração diversos fatores morfológicos, como por exemplo: tipo de cutícula, anfídeo, boca, dente, calda, espícula, etc.. O plano B consiste na criação de uma função em R, que tome como argumentos diversas características morfológicas, de modo que retorne os gêneros que apresentam tais combinações, de modo a facilitar a identificação.

Exemplos de alguns argumentos de entrada da função:

cuticula= ("lisa", "estriada fina", "estriada grossa", "pontilhada fina", "pontilhada grossa", "ornamentada")

Anfídeo = ("ausente", "copo", "espiral simples", "espiral múltiplo", "guarda chuva", "rosquinha", "outros")

Boca= ("ausente", "com dente sólido", "com dente oco", "mandíbula")

Bulbo (“alongado”, “duplo”, “múltiplo”, “simples”, “ausente”)

cauda = (“cilindrica”, “ciclintrica conica”, “conica”, “filiforme”)

Apófise = (“presente”, “ausente”)

suplemento = (“presente”, “ausente”)

diferenciação na cutícula = (“presente”, “ausente”)

entre outras...

## Comentários

Plano A: precisa definir qual o dado de entrada, imagino que seja um vetor com os nome dos generos? Pode entrar a lista de generos válida tb, não há necessidade de ter ela internamente na função! Acho que se for isso é um desafio interessante, mas precisa definir a saída: (1) nomes de generos que não foram encontrados? Ou a função vai tomar a decisão de que houve erro ortográfico?? Na função dois, como será a entrada? Um vetor com o nome do genero e outro com a classificação das guildas alimentares??

Plano B: Não entendi como a função opera! Não seria mais lógico a entrada ser um conjunto de caracteres do indivíduo? Como um conjunto de argumentos com estados de caracteres se converte em possíveis identificações...

— [Alexandre Adalardo de Oliveira](#) 2012/04/03 22:12

## Trabalho Final

Como trabalho final, referente ao plano A, resolvi integrar as duas funções propostas, resultando em uma função interativa. Também adicionei na função a classificação em famílias. Em um primeiro momento, a função retorna o número de gêneros discordantes à uma lista de gêneros predefinidas (classificação de Warwick, et al., 1998), e pergunta ao usuário se ele deseja listar os gêneros discordantes (que no caso pode ser devido: ou a erros de digitação, ou à incompatibilidade com a lista de Warwick). Em caso de “Y”, os gêneros discordantes são listados e a função é interrompida. Em caso de “N”, a função continua a classificação, seguindo os critérios “found” (se o gênero foi encontrado), “family”, “genus” e “feeding type”. Se não houver gêneros discordantes, a função apenas classifica os gêneros em família, gênero e feeding type.

```
classnema<- function(x)
{
  x<-as.vector(x[,1])
  ## encontrando
  obj1<-x
```

```
found<-
obj1=="Enoplus" | obj1=="Enoploides" | obj1=="Enoplolaimus" | obj1=="Epacanthion" |
obj1=="Mesacanthion" | obj1=="Mesacanthoides" | obj1=="Oxyonchus" | obj1=="Parames
acanthion" |
obj1=="Thoracostomopsis" | obj1=="Trileptium" | obj1=="Anoplostoma" | obj1=="Chaet
onema" |
obj1=="Crenopharynx" | obj1=="Micoletzkyia" | obj1=="Phanoderma" | obj1=="Phanoder
mella" |
obj1=="Phanodermopsis" | obj1=="Anticoma" | obj1=="Anticomopsis" | obj1=="Cephalan
ticoma" |
obj1=="Odontanticoma" | obj1=="Paranticoma" | obj1=="Dolicholaimus" | obj1=="Parir
onus" |
obj1=="Pheronus" | obj1=="Syringolaimus" | obj1=="Thalassironus" | obj1=="Trissonc
hulus" |
obj1=="Cylicolaimus" | obj1=="Deontostoma" | obj1=="Leptosomatides" | obj1=="Lepto
somatum" |
obj1=="Metacylicolaimus" | obj1=="Platycoma" | obj1=="Platycomopsis" | obj1=="Pseu
docella" |
obj1=="Synonchus" | obj1=="Thoracostoma" | obj1=="Halalaimus" | obj1=="Litinium" |
obj1=="Nemanema" | obj1=="Oxystomina" | obj1=="Paroxystomina" | obj1=="Thalassoala
imus" |
obj1=="Wieseria" | obj1=="Adoncholaimus" | obj1=="Filoncholaimus" | obj1=="Metapar
oncholaimus" |
obj1=="Metoncholaimus" | obj1=="Meyersia" | obj1=="Oncholaimellus" | obj1=="Onchol
aimus" |
obj1=="Pontonema" | obj1=="Prooncholaimus" | obj1=="Viscosia" | obj1=="Bathyeuryst
omina" |
obj1=="Belbolla" | obj1=="Calyptronema" | obj1=="Ditlevsenella" | obj1=="Eurystomi
na" |
obj1=="Pareurystomina" | obj1=="Polygastrophora" | obj1=="Symplocostoma" | obj1=="
Bathylaimus" |
obj1=="Gairleanema" | obj1=="Tripyloides" | obj1=="Rhabdodemia" | obj1=="Pandola
imus" |
obj1=="Cytolaimium" | obj1=="Halanonchus" | obj1=="Rhabdocoma" | obj1=="Trefusia" |
obj1=="Trefusialaimus" | obj1=="Lauratonema" | obj1=="Xenella" | obj1=="Acantholai
mus" |
obj1=="Actinonema" | obj1=="Atrochromadora" | obj1=="Chromadora" | obj1=="Chromado
rella" |
obj1=="Chromadorina" | obj1=="Chromadorita" | obj1=="Dichromadora" | obj1=="Endeol
ophos" |
obj1=="Euchromadora" | obj1=="Graphenoma" | obj1=="Hypodontolaimus" | obj1=="Innoc
uonema" |
obj1=="Karkinochromadora" | obj1=="Neochromadora" | obj1=="Nygmatonchus" | obj1=="
Parachromadorita" |
obj1=="Parapinnanema" | obj1=="Prochromadora" | obj1=="Prochromadorella" | obj1=="
Ptycholaimellus" |
obj1=="Rhops" | obj1=="Spiliphera" | obj1=="Spilophorella" | obj1=="Steinodorella"
|
obj1=="Trochamus" | obj1=="Actarjania" | obj1=="Cervonema" | obj1=="Comesoma" |
obj1=="Comesomoides" | obj1=="Dorylaimopsis" | obj1=="Hopperia" | obj1=="Laimella"
|
```

obj1=="Metacomesoma" | obj1=="Paracomesoma" | obj1=="Paramesonchium" | obj1=="Pier  
rickia" |  
obj1=="Sabatieria" | obj1=="Setosabatieria" | obj1=="Vasostoma" | obj1=="Comesa" |  
obj1=="Ethmolaimus" | obj1=="Filitonchus" | obj1=="Gomphonchus" | obj1=="Gomphon  
ema" |  
obj1=="Nannolaimus" | obj1=="Neotonchus" | obj1=="Paraethmolaimus" | obj1=="Acanth  
onchus" |  
obj1=="Cyatholaimus" | obj1=="Kraspedonema" | obj1=="Longicyatholaimus" | obj1=="M  
arylynnia" |  
obj1=="Metacyatholaimus" | obj1=="Minolaimus" | obj1=="Nannolaimoides" | obj1=="Pa  
racanthonchus" |  
obj1=="Paracyatholaimoides" | obj1=="Paracyatholaimus" | obj1=="Paralongicyathol  
aimus" | obj1=="Pomponema" |  
obj1=="Praeacanthonchus" | obj1=="Cheironchus" | obj1=="Choanolaimus" | obj1=="Cho  
niolaimus" |  
obj1=="Demonema" | obj1=="Gammanema" | obj1=="Halichoanolaimus" | obj1=="Latronema  
" |  
obj1=="Richtersia" | obj1=="Synonchiella" | obj1=="Synonchium" | obj1=="Acanthopha  
ryngoides" |  
obj1=="Acanthopharynx" | obj1=="Catanema" | obj1=="Croconema" | obj1=="Chromaspiri  
na" |  
obj1=="Desmodora" | obj1=="Echinodesmodora" | obj1=="Eubostrichus" | obj1=="Lepton  
emella" |  
obj1=="Metachromadora" | obj1=="Molgolaimus" | obj1=="Onyx" | obj1=="Papillonema" |  
obj1=="Paradesmodora" | obj1=="Parallelocoilas" | obj1=="Perspiria" | obj1=="Polys  
igma" |  
obj1=="Psammonema" | obj1=="Pseudochromadora" | obj1=="Pseudonchus" | obj1=="Sigo  
phoranema" |  
obj1=="Spirinia" | obj1=="Stygodesmodora" | obj1=="Zalonema" | obj1=="Akanthepsilo  
nema" |  
obj1=="Bathyepsilon" | obj1=="Epsilonema" | obj1=="Glochinema" | obj1=="Keraton  
ema" |  
obj1=="Leptepsilonema" | obj1=="Metaglochinema" | obj1=="Perepsilonema" | obj1=="P  
olkepsilonema" |  
obj1=="Pternepsilonema" | obj1=="Dracognomus" | obj1=="Draconema" | obj1=="Notocha  
etosoma" |  
obj1=="Paradraconema" | obj1=="Prochaetosoma" | obj1=="Acanthomicrolaimus" | obj1=  
="Aponema" |  
obj1=="Bolbolaimus" | obj1=="Calomicrolaimus" | obj1=="Ixonema" | obj1=="Microlaim  
us" |  
obj1=="Spirobolbolaimus" | obj1=="Aponchium" | obj1=="Synonema" | obj1=="Monoposth  
ia" |  
obj1=="Monoposthoides" | obj1=="Nudora" | obj1=="Rhinema" | obj1=="Alaimella" |  
obj1=="Anomonema" | obj1=="Antomicron" | obj1=="Camacolaimus" | obj1=="Cricolaimus  
" |  
obj1=="Dagda" | obj1=="Deontolaimus" | obj1=="Diodontolaimus" | obj1=="Halaphanola  
imus" |  
obj1=="Leptolaimoides" | obj1=="Leptolaimus" | obj1=="Listia" | obj1=="Onchium" |  
obj1=="Procamacolaimus" | obj1=="Stephanolaimus" | obj1=="Manunema" | obj1=="Halip  
lectus" |

```

obj1=="Setoplectus" | obj1=="Tarvaia" | obj1=="Aegialoalaimus" | obj1=="Cyartonema
"|
obj1=="Diplopeltoides" | obj1=="Southernia" | obj1=="Chitwoodia" | obj1=="Tubolaim
oides" |
obj1=="Ceramonema" | obj1=="Dasynemoides" | obj1=="Metadasynemella" | obj1=="Metad
asynemoides" |
obj1=="Pselionema" | obj1=="Pterygonema" | obj1=="Paramicroalaimus" | obj1=="Bouche
rius" |
obj1=="Gerlachius" | obj1=="Meylia" | obj1=="Noffsingeria" | obj1=="Calligyus" |
obj1=="Desmogerlachia" | obj1=="Desmolorenzenia" | obj1=="Desmoscolex" | obj1=="Gr
eeffiella" |
obj1=="Greeffiellopsis" | obj1=="Hapalonus" | obj1=="Pareudesmoscolex" | obj1=="Qu
adricoma" |
obj1=="Tricoma" | obj1=="Diplolaimella" | obj1=="Diplolaimelloides" | obj1=="Gamma
rinema" |
obj1=="Geomonhystera" | obj1=="Thalassomonhystera" | obj1=="Ammotheristus" | obj1=
=="Amphimonhystera" |
obj1=="Amphimonhystrella" | obj1=="Cobbia" | obj1=="Daptonema" | obj1=="Echinother
istus" |
obj1=="Elzalia" | obj1=="Gnomoxyala" | obj1=="Gonionchus" | obj1=="Linhystera" |
obj1=="Metadesmolaimus" | obj1=="Omicronema" | obj1=="Paramonohystera" | obj1=="Pr
omonhystera" |
obj1=="Prorhynchonema" | obj1=="Pseudosteineria" | obj1=="Retrotheristus" | obj1==
"Rhynchonema" |
obj1=="Scaptrella" | obj1=="Steineria" | obj1=="Stylotheristus" | obj1=="Theristus
" |
obj1=="Trichotheristus" | obj1=="Valvaelaimus" | obj1=="Xenolaimus" | obj1=="Xyala
" |
obj1=="Doliolaimus" | obj1=="Metasphaerolaimus" | obj1=="Parasphaerolaimus" | obj1
=="Sphaerolaimus" |
obj1=="Subsphaerolaimus" | obj1=="Astomonema" | obj1=="Parastomonema" | obj1=="Sip
honolaimus" |
obj1=="Anticyathus" | obj1=="Desmolaimus" | obj1=="Didelta" | obj1=="Disconema" |
obj1=="Eleutherolaimus" | obj1=="Eumorpholaimus" | obj1=="Linhomoeus" | obj1=="Meg
adesmolaimus" |
obj1=="Metalinhomoeus" | obj1=="Paralinhomoeus" | obj1=="Terschellingia" | obj1=="
Apodontium" |
obj1=="Ascolaimus" | obj1=="Axonolaimus" | obj1=="Nicascolaimus" | obj1=="Odontoph
ora" |
obj1=="Odontophoroides" | obj1=="Parodontophora" | obj1=="Pseudolella" | obj1=="Sy
nodontium" |
obj1=="Araeolaimus" | obj1=="Campylaimus" | obj1=="Diplopeltis" | obj1=="Diplopelt
ula" |
obj1=="Morlaixia" | obj1=="Southerniella" | obj1=="Coninckia" | obj1=="Bodonema"
## classificando
guild<-as.vector(x)
family<-as.vector(x)
genus<-as.vector(x)
## familia ENOPLIDAE
family[family=="Enoplus"]<- "Enoplidae"
guild[guild=="Enoplus"]<- "2B"

```

```
## familia THORACOSTOMOPSIDAE
family[family=="Enoploides"]<- "Thoracostomopsidae"
guild[guild=="Enoploides"]<- "2B"
family[family=="Enoplolaimus"]<- "Thoracostomopsidae"
guild[guild=="Enoplolaimus"]<- "2B"
family[family=="Epacanthion"]<- "Thoracostomopsidae"
guild[guild=="Epacanthion"]<- "2B"
family[family=="Mesacanthion"]<- "Thoracostomopsidae"
guild[guild=="Mesacanthion"]<- "2B"
family[family=="Mesacanthoides"]<- "Thoracostomopsidae"
guild[guild=="Mesacanthoides"]<- "2B"
family[family=="Oxyonchus"]<- "Thoracostomopsidae"
guild[guild=="Oxyonchus"]<- "2B"
family[family=="Paramesacanthion"]<- "Thoracostomopsidae"
guild[guild=="Paramesacanthion"]<- "2B"
family[family=="Thoracostomopsis"]<- "Thoracostomopsidae"
guild[guild=="Thoracostomopsis"]<- "2B"
family[family=="Trileptium"]<- "Thoracostomopsidae"
guild[guild=="Trileptium"]<- "2B"
## familia ANOPLOSTOMATIDAE
family[family=="Anoplostoma"]<- "Anoplostomatidae"
guild[guild=="Anoplostoma"]<- "1B"
family[family=="Chaetonema"]<- "Anoplostomatidae"
guild[guild=="Chaetonema"]<- "1B"
## familia PHANODERMATIDAE
family[family=="Crenopharynx"]<- "Phanodermatidae"
guild[guild=="Crenopharynx"]<- "1A"
family[family=="Micoletzkyia"]<- "Phanodermatidae"
guild[guild=="Micoletzkyia"]<- "1A"
family[family=="Phanoderma"]<- "Phanodermatidae"
guild[guild=="Phanoderma"]<- "2A"
family[family=="Phanodermella"]<- "Phanodermatidae"
guild[guild=="Phanodermella"]<- "1A"
family[family=="Phanodermopsis"]<- "Phanodermatidae"
guild[guild=="Phanodermopsis"]<- "2A"
## familia ANTICOMIDAE
family[family=="Anticoma"]<- "Anticomidae"
guild[guild=="Anticoma"]<- "1A"
family[family=="Anticomopsis"]<- "Anticomidae"
guild[guild=="Anticomopsis"]<- "1A"
family[family=="Cephalanticoma"]<- "Anticomidae"
guild[guild=="Cephalanticoma"]<- "2A"
family[family=="Odontanticoma"]<- "Anticomidae"
guild[guild=="Odontanticoma"]<- "2A"
family[family=="Paranticoma"]<- "Anticomidae"
guild[guild=="Paranticoma"]<- "2A"
## familia IRONIDAE
family[family=="Dolicholaimus"]<- "Ironidae"
guild[guild=="Dolicholaimus"]<- "2B"
family[family=="Parironus"]<- "Ironidae"
```

```
guild[guild=="Parironus"]<- "2B"
family[family=="Pheronus"]<- "Ironidae"
guild[guild=="Pheronus"]<- "2B"
family[family=="Syringolaimus"]<- "Ironidae"
guild[guild=="Syringolaimus"]<- "2A"
family[family=="Thalassironus"]<- "Ironidae"
guild[guild=="Thalassironus"]<- "2B"
family[family=="Trissonchulus"]<- "Ironidae"
guild[guild=="Trissonchulus"]<- "2A"
## familia LEPTOSOMATIDAE
family[family=="Cylicolaimus"]<- "Leptosomatidae"
guild[guild=="Cylicolaimus"]<- "2B"
family[family=="Deontostoma"]<- "Leptosomatidae"
guild[guild=="Deontostoma"]<- "2A"
family[family=="Leptosomatides"]<- "Leptosomatidae"
guild[guild=="Leptosomatides"]<- "1A"
family[family=="Leptosomatum"]<- "Leptosomatidae"
guild[guild=="Leptosomatum"]<- "1A"
family[family=="Metacylicolaimus"]<- "Leptosomatidae"
guild[guild=="Metacylicolaimus"]<- "2A"
family[family=="Platycoma"]<- "Leptosomatidae"
guild[guild=="Platycoma"]<- "2A"
family[family=="Platycomopsis"]<- "Leptosomatidae"
guild[guild=="Platycomopsis"]<- "1A"
family[family=="Pseudocella"]<- "Leptosomatidae"
guild[guild=="Pseudocella"]<- "2B"
family[family=="Synonchus"]<- "Leptosomatidae"
guild[guild=="Synonchus"]<- "2A"
family[family=="Thoracostoma"]<- "Leptosomatidae"
guild[guild=="Thoracostoma"]<- "2A"
## familia OXYSTOMINIDAE
family[family=="Halalaimus"]<- "Oxystominidae"
guild[guild=="Halalaimus"]<- "1A"
family[family=="Litinium"]<- "Oxystominidae"
guild[guild=="Litinium"]<- "1A"
family[family=="Nemanema"]<- "Oxystominidae"
guild[guild=="Nemanema"]<- "1A"
family[family=="Oxystomina"]<- "Oxystominidae"
guild[guild=="Oxystomina"]<- "1A"
family[family=="Paroxystomina"]<- "Oxystominidae"
guild[guild=="Paroxystomina"]<- "2B"
family[family=="Thalassoalaimus"]<- "Oxystominidae"
guild[guild=="Thalassoalaimus"]<- "1A"
family[family=="Wieseria"]<- "Oxystominidae"
guild[guild=="Wieseria"]<- "1A"
## familia ONCHOLAIMIDAE
family[family=="Adoncholaimus"]<- "Oncholaimidae"
guild[guild=="Adoncholaimus"]<- "2B"
family[family=="Filoncholaimus"]<- "Oncholaimidae"
guild[guild=="Filoncholaimus"]<- "2B"
family[family=="Metaparoncholaimus"]<- "Oncholaimidae"
```

```
guild[guild=="Metaparoncholaimus"]<- "2B"
family[family=="Metoncholaimus"]<- "Oncholaimidae"
guild[guild=="Metoncholaimus"]<- "2B"
family[family=="Meyersia"]<- "Oncholaimidae"
guild[guild=="Meyersia"]<- "2B"
family[family=="Oncholaimellus"]<- "Oncholaimidae"
guild[guild=="Oncholaimellus"]<- "2B"
family[family=="Oncholaimus"]<- "Oncholaimidae"
guild[guild=="Oncholaimus"]<- "2B"
family[family=="Pontonema"]<- "Oncholaimidae"
guild[guild=="Pontonema"]<- "2B"
family[family=="Prooncholaimus"]<- "Oncholaimidae"
guild[guild=="Prooncholaimus"]<- "2B"
family[family=="Viscosia"]<- "Oncholaimidae"
guild[guild=="Viscosia"]<- "2B"
## familia ENCHELIDIIDAE
family[family=="Bathyeurystomina"]<- "Enchelidiidae"
guild[guild=="Bathyeurystomina"]<- "2B"
family[family=="Belbolla"]<- "Enchelidiidae"
guild[guild=="Belbolla"]<- "2B"
family[family=="Calyptronema"]<- "Enchelidiidae"
guild[guild=="Calyptronema"]<- "2B"
family[family=="Ditlevsenella"]<- "Enchelidiidae"
guild[guild=="Ditlevsenella"]<- "2B"
family[family=="Eurystomina"]<- "Enchelidiidae"
guild[guild=="Eurystomina"]<- "2B"
family[family=="Pareurystomina"]<- "Enchelidiidae"
guild[guild=="Pareurystomina"]<- "2B"
family[family=="Polygastrophora"]<- "Enchelidiidae"
guild[guild=="Polygastrophora"]<- "2B"
family[family=="Symplocostoma"]<- "Enchelidiidae"
guild[guild=="Symplocostoma"]<- "2B"
## familia TRIPYLOIDIDAE
family[family=="Bathylaimus"]<- "Tripyloididae"
guild[guild=="Bathylaimus"]<- "1B"
family[family=="Gairleanema"]<- "Tripyloididae"
guild[guild=="Gairleanema"]<- "2B"
family[family=="Tripyloides"]<- "Tripyloididae"
guild[guild=="Tripyloides"]<- "1B"
## familia RHABDODEMANIIDAE
family[family=="Rhabdodemia"]<- "Rhabdodemiidae"
guild[guild=="Rhabdodemia"]<- "2B"
## familia PANDOLAIMIDAE
family[family=="Pandolaimus"]<- "Pandolaimidae"
guild[guild=="Pandolaimus"]<- "1B"
## familia TREFUSIIDAE
family[family=="Cytolaimium"]<- "Trefusiidae"
guild[guild=="Cytolaimium"]<- "1B"
family[family=="Halanonchus"]<- "Trefusiidae"
guild[guild=="Halanonchus"]<- "1B"
```



```
family[family=="Rhabdocoma"]<- "Trefusiidae"
guild[guild=="Rhabdocoma"]<- "1A"
family[family=="Trefusia"]<- "Trefusiidae"
guild[guild=="Trefusia"]<- "1A"
family[family=="Trefusialaimus"]<- "Trefusiidae"
guild[guild=="Trefusialaimus"]<- "1A"
## familia LAURATONEMATIDAE
family[family=="Lauratonema"]<- "Lauratonematidae"
guild[guild=="Lauratonema"]<- "1B"
## familia XENELLIDAE
family[family=="Xenella"]<- "Xenellidae"
guild[guild=="Xenella"]<- "1A"
## familia CHROMADORIDAE
family[family=="Acantholaimus"]<- "Chromadoridae"
guild[guild=="Acantholaimus"]<- "2A"
family[family=="Actinonema"]<- "Chromadoridae"
guild[guild=="Actinonema"]<- "2A"
family[family=="Atrochromadora"]<- "Chromadoridae"
guild[guild=="Atrochromadora"]<- "2A"
family[family=="Chromadora"]<- "Chromadoridae"
guild[guild=="Chromadora"]<- "2A"
family[family=="Chromadorella"]<- "Chromadoridae"
guild[guild=="Chromadorella"]<- "2A"
family[family=="Chromadorina"]<- "Chromadoridae"
guild[guild=="Chromadorina"]<- "2A"
family[family=="Chromadorita"]<- "Chromadoridae"
guild[guild=="Chromadorita"]<- "2A"
family[family=="Dichromadora"]<- "Chromadoridae"
guild[guild=="Dichromadora"]<- "2A"
family[family=="Endeolophos"]<- "Chromadoridae"
guild[guild=="Endeolophos"]<- "2A"
family[family=="Euchromadora"]<- "Chromadoridae"
guild[guild=="Euchromadora"]<- "2A"
family[family=="Graphenoma"]<- "Chromadoridae"
guild[guild=="Graphenoma"]<- "2A"
family[family=="Hypodontolaimus"]<- "Chromadoridae"
guild[guild=="Hypodontolaimus"]<- "2A"
family[family=="Innocuonema"]<- "Chromadoridae"
guild[guild=="Innocuonema"]<- "2A"
family[family=="Karkinochromadora"]<- "Chromadoridae"
guild[guild=="Karkinochromadora"]<- "2A"
family[family=="Neochromadora"]<- "Chromadoridae"
guild[guild=="Neochromadora"]<- "2A"
family[family=="Nygmatonchus"]<- "Chromadoridae"
guild[guild=="Nygmatonchus"]<- "2A"
family[family=="Parachromadorita"]<- "Chromadoridae"
guild[guild=="Parachromadorita"]<- "2A"
family[family=="Parapinnanema"]<- "Chromadoridae"
guild[guild=="Parapinnanema"]<- "2A"
family[family=="Prochromadora"]<- "Chromadoridae"
guild[guild=="Prochromadora"]<- "2A"
```

```
family[family=="Prochromadorella"]<- "Chromadoridae"
guild[guild=="Prochromadorella"]<- "2A"
family[family=="Ptycholaimellus"]<- "Chromadoridae"
guild[guild=="Ptycholaimellus"]<- "2A"
family[family=="Rhips"]<- "Chromadoridae"
guild[guild=="Rhips"]<- "2A"
family[family=="Spiliphera"]<- "Chromadoridae"
guild[guild=="Spiliphera"]<- "2A"
family[family=="Spilophorella"]<- "Chromadoridae"
guild[guild=="Spilophorella"]<- "2A"
family[family=="Steinodorella"]<- "Chromadoridae"
guild[guild=="Steineridora"]<- "2A"
family[family=="Trochamus"]<- "Chromadoridae"
guild[guild=="Trochamus"]<- "2A"
## familia COMESOMATIDAE
family[family=="Actarjania"]<- "Comesomatidae"
guild[guild=="Cervonema"]<- "1B"
family[family=="Cervonema"]<- "Comesomatidae"
guild[guild=="Cervonema"]<- "1A"
family[family=="Comesoma"]<- "Comesomatidae"
guild[guild=="Comesoma"]<- "1B"
family[family=="Comesomoides"]<- "Comesomatidae"
guild[guild=="Comesomoides"]<- "1B"
family[family=="Dorylaimopsis"]<- "Comesomatidae"
guild[guild=="Dorylaimopsis"]<- "2A"
family[family=="Hopperia"]<- "Comesomatidae"
guild[guild=="Hopperia"]<- "2A"
family[family=="Laimella"]<- "Comesomatidae"
guild[guild=="Laimella"]<- "2A"
family[family=="Metacomesoma"]<- "Comesomatidae"
guild[guild=="Metacomesoma"]<- "1B"
family[family=="Paracomesoma"]<- "Comesomatidae"
guild[guild=="Paracomesoma"]<- "2A"
family[family=="Paramesonchium"]<- "Comesomatidae"
guild[guild=="Paramesonchium"]<- "2A"
family[family=="Pierrickia"]<- "Comesomatidae"
guild[guild=="Pierrickia"]<- "1B"
family[family=="Sabatieria"]<- "Comesomatidae"
guild[guild=="Sabatieria"]<- "1B"
family[family=="Setosabatieria"]<- "Comesomatidae"
guild[guild=="Vasostoma"]<- "1B"
family[family=="Vasostoma"]<- "Comesomatidae"
guild[guild=="Vasostoma"]<- "2A"
## familia ETHMOLAIMIDAE
family[family=="Comesa"]<- "Ethmolaimidae"
guild[guild=="Comesa"]<- "2A"
family[family=="Ethmolaimus"]<- "Ethmolaimidae"
guild[guild=="Ethmolaimus"]<- "2A"
family[family=="Filitonchus"]<- "Ethmolaimidae"
guild[guild=="Filitonchus"]<- "1A"
```

```
family[family=="Gomphionchus"]<- "Ethmolaimidae"
guild[guild=="Gomphionchus"]<- "2A"
family[family=="Gomphionema"]<- "Ethmolaimidae"
guild[guild=="Gomphionema"]<- "2B"
family[family=="Nannolaimus"]<- "Ethmolaimidae"
guild[guild=="Nannolaimus"]<- "1A"
family[family=="Neotonchus"]<- "Ethmolaimidae"
guild[guild=="Neotonchus"]<- "2A"
family[family=="Paraethmolaimus"]<- "Ethmolaimidae"
guild[guild=="Paraethmolaimus"]<- "2A"
## familia CYATHOLAIMIDAE
family[family=="Acanthonchus"]<- "Cyatholaimidae"
guild[guild=="Acanthonchus"]<- "2A"
family[family=="Cyatholaimus"]<- "Cyatholaimidae"
guild[guild=="Cyatholaimus"]<- "2A"
family[family=="Kraspedonema"]<- "Cyatholaimidae"
guild[guild=="Kraspedonema"]<- "2A"
family[family=="Longicyatholaimus"]<- "Cyatholaimidae"
guild[guild=="Longicyatholaimus"]<- "2A"
family[family=="Marylynnia"]<- "Cyatholaimidae"
guild[guild=="Marylynnia"]<- "2A"
family[family=="Metacyatholaimus"]<- "Cyatholaimidae"
guild[guild=="Metacyatholaimus"]<- "2A"
family[family=="Minolaimus"]<- "Cyatholaimidae"
guild[guild=="Minolaimus"]<- "1A"
family[family=="Nannolaimoides"]<- "Cyatholaimidae"
guild[guild=="Nannolaimoides"]<- "2A"
family[family=="Paracanthonchus"]<- "Cyatholaimidae"
guild[guild=="Paracanthonchus"]<- "2A"
family[family=="Paracyatholaimoides"]<- "Cyatholaimidae"
guild[guild=="Paracyatholaimoides"]<- "2A"
family[family=="Paracyatholaimus"]<- "Cyatholaimidae"
guild[guild=="Paracyatholaimus"]<- "2A"
family[family=="Paralongicyatholaimus"]<- "Cyatholaimidae"
guild[guild=="Paralongicyatholaimus"]<- "2A"
family[family=="Pomponema"]<- "Cyatholaimidae"
guild[guild=="Pomponema"]<- "2B"
family[family=="Praeacanthonchus"]<- "Cyatholaimidae"
guild[guild=="Praeacanthonchus"]<- "2A"
## familia SELACHINEMATIDAE
family[family=="Cheironchus"]<- "Selachinematidae"
guild[guild=="Cheironchus"]<- "2B"
family[family=="Choanolaimus"]<- "Selachinematidae"
guild[guild=="Choanolaimus"]<- "2B"
family[family=="Choniolaimus"]<- "Selachinematidae"
guild[guild=="Choniolaimus"]<- "2B"
family[family=="Demonema"]<- "Selachinematidae"
guild[guild=="Demonema"]<- "2B"
family[family=="Gammanema"]<- "Selachinematidae"
guild[guild=="Gammanema"]<- "2B"
family[family=="Halichoanolaimus"]<- "Selachinematidae"
```

```
guild[guild=="Halichoanolaimus"]<- "2B"
family[family=="Latronema"]<- "Selachinematidae"
guild[guild=="Latronema"]<- "2A"
family[family=="Richtersia"]<- "Selachinematidae"
guild[guild=="Richtersia"]<- "1B"
family[family=="Synonchiella"]<- "Selachinematidae"
guild[guild=="Synonchiella"]<- "2B"
family[family=="Synonchium"]<- "Selachinematidae"
guild[guild=="Synonchium"]<- "2B"
## familia DESMODORIDAE
family[family=="Acanthopharyngoides"]<- "Desmodoridae"
guild[guild=="Acanthopharyngoides"]<- "2A"
family[family=="Acanthopharynx"]<- "Desmodoridae"
guild[guild=="Acanthopharynx"]<- "2B"
family[family=="Catanema"]<- "Desmodoridae"
guild[guild=="Catanema"]<- "2A"
family[family=="Croconema"]<- "Desmodoridae"
guild[guild=="Croconema"]<- "2A"
family[family=="Chromaspirina"]<- "Desmodoridae"
guild[guild=="Chromaspirina"]<- "2B"
family[family=="Desmodora"]<- "Desmodoridae"
guild[guild=="Desmodora"]<- "2A"
family[family=="Echinodesmodora"]<- "Desmodoridae"
guild[guild=="Echinodesmodora"]<- "2A"
family[family=="Eubostrichus"]<- "Desmodoridae"
guild[guild=="Eubostrichus"]<- "2A"
family[family=="Leptonemella"]<- "Desmodoridae"
guild[guild=="Leptonemella"]<- "1A"
family[family=="Metachromadora"]<- "Desmodoridae"
guild[guild=="Metachromadora"]<- "2A"
family[family=="Molgolaimus"]<- "Desmodoridae"
guild[guild=="Molgolaimus"]<- "1A"
family[family=="Onyx"]<- "Desmodoridae"
guild[guild=="Onyx"]<- "2B"
family[family=="Papillonema"]<- "Desmodoridae"
guild[guild=="Papillonema"]<- "2A"
family[family=="Paradesmodora"]<- "Desmodoridae"
guild[guild=="Paradesmodora"]<- "2A"
family[family=="Parallelocoilas"]<- "Desmodoridae"
guild[guild=="Parallelocoilas"]<- "2A"
family[family=="Perspiria"]<- "Desmodoridae"
guild[guild=="Perspiria"]<- "2A"
family[family=="Polysigma"]<- "Desmodoridae"
guild[guild=="Polysigma"]<- "2A"
family[family=="Psammonema"]<- "Desmodoridae"
guild[guild=="Psammonema"]<- "2A"
family[family=="Pseudochromadora"]<- "Desmodoridae"
guild[guild=="Pseudochromadora"]<- "2A"
family[family=="Pseudonchus"]<- "Desmodoridae"
guild[guild=="Pseudonchus"]<- "2B"
```

```
family[family=="Sigmophoranema"]<- "Desmodoridae"
guild[guild=="Sigmophoranema"]<- "2A"
family[family=="Spirinia"]<- "Desmodoridae"
guild[guild=="Spirinia"]<- "2A"
family[family=="Stygodesmodora"]<- "Desmodoridae"
guild[guild=="Stygodesmodora"]<- "2A"
family[family=="Zalonema"]<- "Desmodoridae"
guild[guild=="Zalonema"]<- "2A"
## familia EPSILONEMATIDAE
family[family=="Akanthepsilonema"]<- "Episilonematidae"
guild[guild=="Akanthepsilonema"]<- "1A"
family[family=="Bathyepsilonema"]<- "Episilonematidae"
guild[guild=="Bathyepsilonema"]<- "1A"
family[family=="Epsilonema"]<- "Episilonematidae"
guild[guild=="Epsilonema"]<- "1A"
family[family=="Glochinema"]<- "Episilonematidae"
guild[guild=="Glochinema"]<- "1A"
family[family=="Keratonema"]<- "Episilonematidae"
guild[guild=="Keratonema"]<- "1A"
family[family=="Leptepsilonema"]<- "Episilonematidae"
guild[guild=="Leptepsilonema"]<- "1A"
family[family=="Metaglochinema"]<- "Episilonematidae"
guild[guild=="Metaglochinema"]<- "1A"
family[family=="Metepsilonema"]<- "Episilonematidae"
guild[guild=="Metepsilonema"]<- "1A"
family[family=="Perepsilonema"]<- "Episilonematidae"
guild[guild=="Perepsilonema"]<- "1A"
family[family=="Polkepsilonema"]<- "Episilonematidae"
guild[guild=="Polkepsilonema"]<- "1A"
family[family=="Pternepsilonema"]<- "Episilonematidae"
guild[guild=="Pternepsilonema"]<- "1A"
## familia DRACONEMATIDAE
family[family=="Dracognomus"]<- "Draconematidae"
guild[guild=="Dracognomus"]<- "1A"
family[family=="Draconema"]<- "Draconematidae"
guild[guild=="Draconema"]<- "1A"
family[family=="Notochaetosoma"]<- "Draconematidae"
guild[guild=="Notochaetosoma"]<- "1A"
family[family=="Paradraconema"]<- "Draconematidae"
guild[guild=="Paradraconema"]<- "1A"
family[family=="Prochaetosoma"]<- "Draconematidae"
guild[guild=="Prochaetosoma"]<- "1A"
## familia MICROLAIMIDAE
family[family=="Acanthomicrolaimus"]<- "Microlaimidae"
guild[guild=="Acanthomicrolaimus"]<- "2A"
family[family=="Aponema"]<- "Microlaimidae"
guild[guild=="Aponema"]<- "1A"
family[family=="Bolbolaimus"]<- "Microlaimidae"
guild[guild=="Bolbolaimus"]<- "2B"
family[family=="Calomicrolaimus"]<- "Microlaimidae"
guild[guild=="Calomicrolaimus"]<- "2A"
```

```
family[family=="Ixonema"]<- "Microlaimidae"
guild[guild=="Ixonema"]<- "2A"
family[family=="Microlaimus"]<- "Microlaimidae"
guild[guild=="Microlaimus"]<- "2A"
family[family=="Spirobolbolaimus"]<- "Microlaimidae"
guild[guild=="Spirobolbolaimus"]<- "2B"
## familia APONCHIDAE
family[family=="Aponchium"]<- "Aponchidae"
guild[guild=="Aponchium"]<- "2A"
family[family=="Synonema"]<- "Aponchidae"
guild[guild=="Synonema"]<- "2A"
## familia MONOPOSTHIIDAE
family[family=="Monoposthia"]<- "Monoposthiidae"
guild[guild=="Monoposthia"]<- "2A"
family[family=="Monoposthoides"]<- "Monoposthiidae"
guild[guild=="Monoposthoides"]<- "2A"
family[family=="Nudora"]<- "Monoposthiidae"
guild[guild=="Nudora"]<- "2A"
family[family=="Rhinema"]<- "Monoposthiidae"
guild[guild=="Rhinema"]<- "2A"
## familia LEPTOLAIMIDAE
family[family=="Alaimella"]<- "Leptolaimidae"
guild[guild=="Alaimella"]<- "1A"
family[family=="Anomonema"]<- "Leptolaimidae"
guild[guild=="Anomonema"]<- "1A"
family[family=="Antomicron"]<- "Leptolaimidae"
guild[guild=="Antomicron"]<- "1A"
family[family=="Camacolaimus"]<- "Leptolaimidae"
guild[guild=="Camacolaimus"]<- "2A"
family[family=="Cricolaimus"]<- "Leptolaimidae"
guild[guild=="Cricolaimus"]<- "1A"
family[family=="Dagda"]<- "Leptolaimidae"
guild[guild=="Dagda"]<- "2A"
family[family=="Deontolaimus"]<- "Leptolaimidae"
guild[guild=="Deontolaimus"]<- "2B"
family[family=="Diodontolaimus"]<- "Leptolaimidae"
guild[guild=="Diodontolaimus"]<- "1B"
family[family=="Halaphanolaimus"]<- "Leptolaimidae"
guild[guild=="Halaphanolaimus"]<- "1A"
family[family=="Leptolaimoides"]<- "Leptolaimidae"
guild[guild=="Leptolaimoides"]<- "1A"
family[family=="Leptolaimus"]<- "Leptolaimidae"
guild[guild=="Leptolaimus"]<- "1A"
family[family=="Listia"]<- "Leptolaimidae"
guild[guild=="Listia"]<- "2B"
family[family=="Onchium"]<- "Leptolaimidae"
guild[guild=="Onchium"]<- "2A"
family[family=="Procamacolaimus"]<- "Leptolaimidae"
guild[guild=="Procamacolaimus"]<- "2A"
family[family=="Stephanolaimus"]<- "Leptolaimidae"
```

```
guild[guild=="Stephanolaimus"]<- "1A"  
## familia PERESIANIDAE  
family[family=="Manunema"]<- "Peresianidae"  
guild[guild=="Manunema"]<- "1A"  
## familia HALIPLECTIDAE  
family[family=="Haliplectus"]<- "Haliplectidae"  
guild[guild=="Haliplectus"]<- "1A"  
family[family=="Setoplectus"]<- "Haliplectidae"  
guild[guild=="Setoplectus"]<- "1A"  
## familia TARVAIIDAE  
family[family=="Tarvaia"]<- "Tarvaiidae"  
guild[guild=="Tarvaia"]<- "1A"  
## familia AEGIALOALAIMIDAE  
family[family=="Aegialoalaimus"]<- "Aegialoalaimidae"  
guild[guild=="Aegialoalaimus"]<- "1A"  
family[family=="Cyartonema"]<- "Aegialoalaimidae"  
guild[guild=="Cyartonema"]<- "1A"  
family[family=="Diplopeltoides"]<- "Aegialoalaimidae"  
guild[guild=="Diplopeltoides"]<- "1A"  
family[family=="Southernia"]<- "Aegialoalaimidae"  
guild[guild=="Southernia"]<- "1A"  
## familia TUBOLAIMOIDIDAE  
family[family=="Chitwoodia"]<- "Tubolaimoididae"  
guild[guild=="Chitwoodia"]<- "1A"  
family[family=="Tubolaimoides"]<- "Tubolaimoididae"  
guild[guild=="Tubolaimoides"]<- "1A"  
## familia CERAMONEMATIDAE  
family[family=="Ceramonema"]<- "Ceramonematidae"  
guild[guild=="Ceramonema"]<- "1A"  
family[family=="Dasynemoides"]<- "Ceramonematidae"  
guild[guild=="Dasynemoides"]<- "1A"  
family[family=="Metadasynemella"]<- "Ceramonematidae"  
guild[guild=="Metadasynemella"]<- "1A"  
family[family=="Metadasynemoides"]<- "Ceramonematidae"  
guild[guild=="Metadasynemoides"]<- "1A"  
family[family=="Pselionema"]<- "Ceramonematidae"  
guild[guild=="Pselionema"]<- "1A"  
family[family=="Pterygonema"]<- "Ceramonematidae"  
guild[guild=="Pterygonema"]<- "1A"  
## familia PARAMICROLAIMIDAE  
family[family=="Paramicrolaimus"]<- "Paramicrolaimidae"  
guild[guild=="Paramicrolaimus"]<- "2Aou2B"  
## familia MEYLIIDAE  
family[family=="Boucherius"]<- "Meyliidae"  
guild[guild=="Boucherius"]<- "1A"  
family[family=="Gerlachius"]<- "Meyliidae"  
guild[guild=="Gerlachius"]<- "1A"  
family[family=="Meylia"]<- "Meyliidae"  
guild[guild=="Meylia"]<- "1A"  
family[family=="Noffsingeria"]<- "Meyliidae"  
guild[guild=="Noffsingeria"]<- "1A"
```

```
## familia DESMOSCOLECIDAE
family[family=="Calligyryus"]<- "Desmoscolecidae"
guild[guild=="Calligyryus"]<- "1A"
family[family=="Desmogerylachia"]<- "Desmoscolecidae"
guild[guild=="Desmogerylachia"]<- "1A"
family[family=="Desmolorenzenia"]<- "Desmoscolecidae"
guild[guild=="Desmolorenzenia"]<- "1A"
family[family=="Desmoscolex"]<- "Desmoscolecidae"
guild[guild=="Desmoscolex"]<- "1A"
family[family=="Greeffiella"]<- "Desmoscolecidae"
guild[guild=="Greeffiella"]<- "1A"
family[family=="Greeffiellopsis"]<- "Desmoscolecidae"
guild[guild=="Greeffiellopsis"]<- "1A"
family[family=="Hapalomus"]<- "Desmoscolecidae"
guild[guild=="Hapalomus"]<- "1A"
family[family=="Pareudesmoscolex"]<- "Desmoscolecidae"
guild[guild=="Pareudesmoscolex"]<- "1A"
family[family=="Quadricoma"]<- "Desmoscolecidae"
guild[guild=="Quadricoma"]<- "1A"
family[family=="Tricoma"]<- "Desmoscolecidae"
guild[guild=="Tricoma"]<- "1A"
## familia MONHYSTERIDAE
family[family=="Diplolaimella"]<- "Monhysteridae"
guild[guild=="Diplolaimella"]<- "1B"
family[family=="Diplolaimelloides"]<- "Monhysteridae"
guild[guild=="Diplolaimelloides"]<- "1B"
family[family=="Gammarinema"]<- "Monhysteridae"
guild[guild=="Gammarinema"]<- "1B"
family[family=="Geomonhystera"]<- "Monhysteridae"
guild[guild=="Geomonhystera"]<- "1B"
family[family=="Thalassomonhystera"]<- "Monhysteridae"
guild[guild=="Thalassomonhystera"]<- "1B"
## familia XYALIDAE
family[family=="Ammotheristus"]<- "Xyalidae"
guild[guild=="Ammotheristus"]<- "1B"
family[family=="Amphimonhystera"]<- "Xyalidae"
guild[guild=="Amphimonhystera"]<- "1B"
family[family=="Amphimonhystrella"]<- "Xyalidae"
guild[guild=="Amphimonhystrella"]<- "1B"
family[family=="Cobbia"]<- "Xyalidae"
guild[guild=="Cobbia"]<- "2A"
family[family=="Daptonema"]<- "Xyalidae"
guild[guild=="Daptonema"]<- "1B"
family[family=="Echinotheristus"]<- "Xyalidae"
guild[guild=="Echinotheristus"]<- "1B"
family[family=="Elzalia"]<- "Xyalidae"
guild[guild=="Elzalia"]<- "1B"
family[family=="Gnomoxyala"]<- "Xyalidae"
guild[guild=="Gnomoxyala"]<- "1B"
family[family=="Gonionchus"]<- "Xyalidae"
```



```
guild[guild=="Gonionchus"]<- "1B"  
family[family=="Linhystera"]<- "Xyalidae"  
guild[guild=="Linhystera"]<- "1A"  
family[family=="Metadesmolaimus"]<- "Xyalidae"  
guild[guild=="Metadesmolaimus"]<- "1B"  
family[family=="Omicronema"]<- "Xyalidae"  
guild[guild=="Omicronema"]<- "1B"  
family[family=="Paramonohystera"]<- "Xyalidae"  
guild[guild=="Paramonohystera"]<- "1B"  
family[family=="Promonhystera"]<- "Xyalidae"  
guild[guild=="Promonhystera"]<- "1B"  
family[family=="Prorhynchonema"]<- "Xyalidae"  
guild[guild=="Prorhynchonema"]<- "1B"  
family[family=="Pseudosteineria"]<- "Xyalidae"  
guild[guild=="Pseudosteineria"]<- "1B"  
family[family=="Retrotheristus"]<- "Xyalidae"  
guild[guild=="Retrotheristus"]<- "1B"  
family[family=="Rhynchonema"]<- "Xyalidae"  
guild[guild=="Rhynchonema"]<- "1B"  
family[family=="Scaptrella"]<- "Xyalidae"  
guild[guild=="Scaptrella"]<- "2B"  
family[family=="Steineria"]<- "Xyalidae"  
guild[guild=="Steineria"]<- "1B"  
family[family=="Stylotheristus"]<- "Xyalidae"  
guild[guild=="Stylotheristus"]<- "1B"  
family[family=="Theristus"]<- "Xyalidae"  
guild[guild=="Theristus"]<- "1B"  
family[family=="Trichotheristus"]<- "Xyalidae"  
guild[guild=="Trichotheristus"]<- "1B"  
family[family=="Valvaelaimus"]<- "Xyalidae"  
guild[guild=="Valvaelaimus"]<- "2A"  
family[family=="Xenolaimus"]<- "Xyalidae"  
guild[guild=="Xenolaimus"]<- "1B"  
family[family=="Xyala"]<- "Xyalidae"  
guild[guild=="Xyala"]<- "1B"  
## familia SPHAEROLAIMIDAE  
family[family=="Doliolaimus"]<- "Sphaerolaimidae"  
guild[guild=="Doliolaimus"]<- "2B"  
family[family=="Metasphaerolaimus"]<- "Sphaerolaimidae"  
guild[guild=="Metasphaerolaimus"]<- "2B"  
family[family=="Parasphaerolaimus"]<- "Sphaerolaimidae"  
guild[guild=="Parasphaerolaimus"]<- "2B"  
family[family=="Sphaerolaimus"]<- "Sphaerolaimidae"  
guild[guild=="Sphaerolaimus"]<- "2B"  
family[family=="Subsphaerolaimus"]<- "Sphaerolaimidae"  
guild[guild=="Subsphaerolaimus"]<- "2B"  
## familia SIPHONOLAIMIDAE  
family[family=="Astomonema"]<- "Siphonolaimidae"  
guild[guild=="Astomonema"]<- "1A"  
family[family=="Parastomonema"]<- "Siphonolaimidae"  
guild[guild=="Parastomonema"]<- "1A"
```

```
family[family=="Siphonolaimus"]<- "Siphonolaimidae"  
guild[guild=="Siphonolaimus"]<- "2B"  
## familia LINHOMOEIDAE  
family[family=="Anticyathus"]<- "Linhomoeidae"  
guild[guild=="Anticyathus"]<- "1B"  
family[family=="Desmolaimus"]<- "Linhomoeidae"  
guild[guild=="Desmolaimus"]<- "1B"  
family[family=="Didelta"]<- "Linhomoeidae"  
guild[guild=="Didelta"]<- "1B"  
family[family=="Disconema"]<- "Linhomoeidae"  
guild[guild=="Disconema"]<- "1A"  
family[family=="Eleutherolaimus"]<- "Linhomoeidae"  
guild[guild=="Eleutherolaimus"]<- "1B"  
family[family=="Eumorpholaimus"]<- "Linhomoeidae"  
guild[guild=="Eumorpholaimus"]<- "1B"  
family[family=="Linhomoeus"]<- "Linhomoeidae"  
guild[guild=="Linhomoeus"]<- "2A"  
family[family=="Megadesmolaimus"]<- "Linhomoeidae"  
guild[guild=="Megadesmolaimus"]<- "1B"  
family[family=="Metalinhomoeus"]<- "Linhomoeidae"  
guild[guild=="Metalinhomoeus"]<- "1B"  
family[family=="Paralinhomoeus"]<- "Linhomoeidae"  
guild[guild=="Paralinhomoeus"]<- "1B"  
family[family=="Terschellingia"]<- "Linhomoeidae"  
guild[guild=="Terschellingia"]<- "1A"  
## familia AXONOLAIMIDAE  
family[family=="Apodontium"]<- "Axonolaimidae"  
guild[guild=="Apodontium"]<- "1B"  
family[family=="Ascolaimus"]<- "Axonolaimidae"  
guild[guild=="Ascolaimus"]<- "1B"  
family[family=="Axonolaimus"]<- "Axonolaimidae"  
guild[guild=="Axonolaimus"]<- "1B"  
family[family=="Nicascolaimus"]<- "Axonolaimidae"  
guild[guild=="Nicascolaimus"]<- "1B"  
family[family=="Odontophora"]<- "Axonolaimidae"  
guild[guild=="Odontophora"]<- "1B"  
family[family=="Odontophoroides"]<- "Axonolaimidae"  
guild[guild=="Odontophoroides"]<- "1B"  
family[family=="Parodontophora"]<- "Axonolaimidae"  
guild[guild=="Parodontophora"]<- "?"  
family[family=="Pseudolella"]<- "Axonolaimidae"  
guild[guild=="Paramicrolaimus"]<- "1A"  
family[family=="Synodontium"]<- "Axonolaimidae"  
guild[guild=="Synodontium"]<- "1B"  
## familia DIPLOPELTIDAE  
family[family=="Araeolaimus"]<- "Diplopeltidae"  
guild[guild=="Araeolaimus"]<- "1A"  
family[family=="Campylaimus"]<- "Diplopeltidae"  
guild[guild=="Campylaimus"]<- "1B"  
family[family=="Diplopeltis"]<- "Diplopeltidae"
```

```

guild[guild=="Diplopeltis"]<-"1A"
family[family=="Diplopeltula"]<-"Diplopeltidae"
guild[guild=="Diplopeltula"]<-"1A"
family[family=="Morlaixia"]<-"Diplopeltidae"
guild[guild=="Morlaixia"]<-"1A"
family[family=="Southerniella"]<-"Diplopeltidae"
guild[guild=="Southerniella"]<-"1A"
## familia CONINCKIIDAE
family[family=="Coninckia"]<-"Coninckiidae"
guild[guild=="Coninckia"]<-"1A"
## familia BODONEMATIDAE
family[family=="Bodonema"]<-"Coninckiidae"
guild[guild=="Bodonema"]<-"1A"
notfound<-obj1[found==FALSE]
error<-length(found[found==FALSE])
frase<-c("gêneros não econtrado(s)",error)
lista1<-c(notfound, frase)
### funcionando
if(error>1)
{
  cat("\n\t","\n\t",####, error, "genus not found",#####, "\n\t")
  if( readline("\n\t List only genus not found? \n\t Y: returns a list of
genus not found in list of classification propoused for Warwick, 1998 \n\t
N: returns a table of classification including the feeding type \n\t")==="Y")
  {
    return(notfound)
  }
  else
  {
    tabela2<-data.frame(found, family, genus, guild)
    return(tabela2)
  }
}
else
{
  tabela3<-data.frame(family, genus, guild)
  return(tabela3)
}
}

```

## HELP

classnema package:unknown R Documentation

classification of free-living marine nematodes in families and feeding types.

### Description

Returns a table with the classification of free-living marine nematodes into families and feeding types.

## Usage

```
classnema()
```

## Arguments

x: dataframe with list of generas

## Details

The genera used in this function follows the classification of Warwick et al, 1998, and "feeding types" proposed by Wieser, 1953.

- If user's table shows no typing errors and is according to Warwick et al. (1998), the function returns a data frame with the list of genera with the respective

families and feeding types.

- If user's table shows typing errors or genera not included in Warwick et al. (1998), the function returns the number of genera not found. As a next step the

function asks if the user wants the list of these genera. By responding:

Y: the function returns a dataframe with the incorrect genera, and the function is interrupted.

N: the function generates a data frame, where the first column indicates the incorrect genera, followed by three columns: family, genus and feeding type.

## Note:

classification of feeding types according to Wieser 1953

1A - selective deposit feeders

1B - non-selective deposit feeders

2A - epigrowth feeders

2B - predators/omnivorous

## Warning:

The function applies solely to a data frame consisting of a list of genera

## Examples:

```
function: classnema(x)
```

```
## data input (x):
```

```
genus  
Acantholaimus  
Daptonema  
Theristus  
...
```

```
### data output:
```

```
family      genus      feeding type  
Chromadoridae  Acantholaimus  2A  
Xyalidae     Daptonema      1B  
Xyalidae     Theristus       1B  
...         ...           ...
```

Author(s)

Danilo Cândido Vieira

References:

Wieser W (1953) Die Beziehung zwischen Mundhöhlenform, Ernährungsweise und Vorkommen bei freilebenden marinen Nematoden. Ark Zool 4: 439-484

Warwick RM, Platt HM, Somerfield PJ (1998) Free-living marine nematodes. Part III. British mononhysterids. Field Studies Council, Shrewbury.

## Script

[Função classnema](#)

## Arquivo para teste da função

[Arquivo contendo gêneros discordantes](#)

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