

I. Addendum of the World species of the superfamily Raphignathoidea (Acari)

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Sepasgosarian (1985) published a list of the plant mites belonging to the superfamily Raphignathoidea. It comprised 9 families, 42 genera and 439 species. The history, the development of investigations all over the world, the role of these mites for pest management and pest control and a complete references was given.

In the meantime many investigators have published papers on this superfamily. Especially Meyer (Smith) & Ueckermann (1989), Ueckermann & Meyer (Smith) (1987) and Bolland (1988) contributed largely and described many new species from Africa. Kuznetsov (1976,1978,1984) was succesful in describing some new genera and species from UDSSR. Bolland (1986) reviewed the family Camerobiidae and erected 2 new genera and some new species. Luxton (1987) reviewed the family Cryptognathidae and divided the mites belonging to this family into two genera. Some other authors published papers which are mentioned in the references.

Nowadays the superfamily Raphignathoidea comprises 9 families, 49 genera and 509 species.

Every species in the list is accompanied by the author's name, date, valid genera, host, locality and one number. This number indicates the relevant family. Therefore the family names are given here again.

In the main paper (Sepasgosarian, 1985) 42 genera were given. In this addendum other genera are given. The number behind the genera indicates the relevant family. To complete this list, the changes and replacements of species are given separately.

A complete catalogue and all literature mentioned in the main paper as well as in this paper exist at the Zoological Institut and Zoological Museum of Hamburg University, to provide scientists all over the world with adequate assistance.

The families of the superfamily Raphignathoidea:

- 1- **Barbituiidae** (1 genus, 2 species)
- 2- **Caligonellidae** (4 genera, 28 species)
- 3- **Camerobiidea** (5 genera, 53 species)
- 4- **Cryptognathidae** (2 genera, 35 species)
- 5- **Eupalopsellidae** (6 genera, 24 species)
- 6- **Homocaligidae** (2 genera, 5 species)

- 7- **Raphignathidae** (3 genera, 44 species)
 8- **Stigmaeidae** (24 genera, 314 species)
 9- **Xenocaligonellidae** (2 genera, 4 species)

**The additional valid genera of raphignathoid families
 in alphabetical order:**

- 43- **Decaphyllobius** 3
Decaphyllobius Bolland, 1986:201
 t.s.: *Decaphyllobis gersoni* Bolland, 1986:201
- 44- **Favognathus** 4
Favognathus Luxton, 1987:113
- 45- **Parastigmaeus** 8
Parastigmaeus Kuznetsov, 1984:11O5
 t.s.: *Pseudostigmaeus capensis* Meyer, 1969
- 46- **Paravillersia** 8
Paravillersia Kuznetsov, 1978:48
 t.s.: *Paravillersia grata* Kuznetsov, 1978:50
- 47- **Prostigmaeus** 8
Prostigmaeus Kuznetsov, 1984:11O5
 t.s.: *Prostigmaeus tauricus* Kuznetsov, 1984:11O5
- 48- **Tillandsobius** 3
Tillandsobius Bolland, 1986:2O5
 t.s.: *Tillandsobius floridensis* (McGregor, 1950):61
- 49- **Tycherobius** 3
Tycherobius Bolland, 1986:2O5
 t.s.: *Neophyllobius lombardini* (Summers & Schilinger, 1955):55O

**The additional valid species of raphignathoid families
 in alphabetical order:**

- africanus* Meyer & Ueckerman, 1989 *Raphignathus* 7, from many plants (about 30) and from soil in different parts of South Africa and Zimbabwe.
- afroensis* Meyer & Ueckermann, 1989 *Caligonella* 2, from soil in Edenville and Pongola, Transvaal, South Africa.
- arboricolus* Momen, 1987 *Pseudostigmaeus* 8, from twigs and barks of apple trees in Belfield, Dublin, Ireland.
- atyeoi* Meyer & Ueckermann, 1989 *Raphignathus* 7, from many plants (about 35) and from soil in different parts of South Africa and Zimbabwe.
- belfieldi* Momen, 1987 *Mediolata* 8, from the leaves of apple trees in Belfield, Dublin, Ireland.
- bellatrus* Meyer & Ueckermann, 1989 *Stigmaeus* 8, from soil in Edenville, South Africa.
- bryonemus* Flechtmann, 1985 *Eustigmaeus* 8, from moss on a wall in Sao Paulo, Brasil.
- buxi* Ueckermann & Meyer, 1987 *Zetzellia* 8, from *Buxus macowanii* in Cape Province, South Africa.

- caecus* Ueckermann & Meyer, 1987 *Stigmaeus* 8, from litter under *Pinus* sp. and soil in Pongola, South Africa.
- choeradi* Ueckermann & Meyer, 1987 *Stigmaeus* 8, from *Galenia sarcophylla* in Hogsback, South Africa.
- citri* Meyer & Ueckermann, 1989 *Exothorhis* 5, from *Citrus sinensis* in Reunion Island.
- citrivallis* Meyer & Ueckermann, 1989 *Molothrognathus* 2, on bark of citrus trees in Cape Provinc, South Africa.
- claviparma* Meyer & Ueckermann, 1989 *Caligonella* 2, from soil in Edenville and Pongola in Transvaal, South Africa.
- davei* Meyer & Ueckermann, 1989 *Neognathus* 2, from soil in Pongola, South Africa.
- dilucidus* Kuznetzov, 1978 *Molothrognathus* 2, in UDSSR.
- distortus* (Kuznetzov, 1974) *Favognathus* 4, on the bark of oak trees in UDSSR.
Cryptognathus distortus Kuznetzov, 1974:1724
Cryptognathus (Favognathus) distortus
Favognathus distortus Luxton, 1987:113.
- dyemkoumai* (Abbonec, 1970) *Eustigmaeus* 8, on *Phlebotomus dubosqi* in Mali.
Ledermuelleria dyemkoumai Abonnenc, 1970:90
Eustigmaeus dyemkoumai : Wood, 1973:82.
- edenvillensis* Ueckermann & Meyer, 1987 *Eustigmaeus* 8, from soil in Edenville, South Africa.
- ensipilosus* Meyer & Ueckermann, 1989 *Raphignathus* 7, from soil in Pongola, Transvaal, South Africa.
- eupalopus* Meyer & ueckermann, 1989 *Neognathus* 2, from soil in Edenville, Pongola and Potchefstroom, South Africa.
- fissicomus* Ueckermann & Meyer, 1987 *Stigmaeus* 8, from soil under *Eucalyptus* sp., in Cape Province, South Africa.
- flatichelus* Meyer & Ueckermann, 1989 *Molothrognathus* 2, from soil in Dendron, Transvaal, South Africa.
- furcisetosus* Meyer & Ueckermann, 1989 *Raphignathus* 7, from soil in Pongola, Transvaal, South Africa.
- geonoma* Meyer & Ueckermann, 1989 *Caligonella* 2, from *Eragrostis* sp., *Diospyros lycioides* and *Achyranthes* sp., and from soil in Transvaal, South Africa.
- gersoni* Bolland, 1986 *Decaphyllobius* 3, on galls of *Obdulia* sp., on *Tamarix aphylla* in Elat, Israel.
- giselae* Meyer & Ueckermann, 1989 *Raphignathus* 7, from *Jasminum fluminense*, *Amaranthus* sp., in Zimbabwe ; from *Panicum maximum*, *Acacia baileyana* and *Rhus pyroides* and from soil and compost in Transvaal, South Africa.
- gloriosus* Kuznetzov, 1978 *Postumius* 8, in UDSSR.
- grata* Kuznetzov, 1978 *Paravillersia* 8, in UDSSR.
- horrida* Momen, 1987 *Mediolata* 8, from the bark of apple trees in Belfield, Dublin, Ireland.

- kamiensis* Meyer & Ueckermann, 1989 *Raphignathus* 7, from soil in Cape Province, South Africa.
- karrooi* Meyer & Ueckermann, 1989 *Raphignathus* 7, from *Penzia incana*, *Chrysocoma ciliata*, *Psilocaulon absimile*, *Pherothrix spinescens* and *Aptosimum spinescens* in Namibia and South Africa.
- kauaiensis* Swift, Gerson & Goff, 1985 *Eustigmaeus* 8, from moss on *Hibiscus tiliaceus* in Kaua'i Island, Hawaiian Islands.
- kenyae* Bolland, 1988 *Exothorhis* 5, on a unknown tree in Nairobi, Kenya.
- latibarrus* Meyer & Ueckermann, 1989 *Favognathus* 4, from *Pteronia paniculata* in Cape Province and from soil in Pongola, Transvaal, South Africa.
- longisetosus* Liang & Hu, 1987 *Stigmaeus* 8, in Nanjing, Shanghai and Guiyang, V.R. China.
- macroposbus* Liang & Hu, 1987 *Stigmaeus* 8, in Huangshan, Nanjing, Guiyang, Tianmushan and Zhejiang, V.R. China.
- monspeliensis* Bolland, 1986 *Camerobia* 3, on *Platanus acerifolia* in Montpellier, France.
- najeeba* (Habeeb, 1973) *Eustigmaeus* 8, on *Leptodictyum* sp., in water of small pond near New York.
Ledertmuelleria najeeba Habeeb, 1973:1
Eustigmaeus najeeba : Wood, 1973:82
- observabilis* (Kuznetzov, 1974) *Favognathus* 4, on *Sedum* sp. and *Sideritis* sp., in UDSSR.
Cryptognathus observabilis Kuznetzov, 1974:1724
Cryptognathus (F.) obsrevabilis
Favognathus observabilis : Luxton, 1987:113
- orbiculatus* Livshitz, 1974 *Cryptognathus* 4, on the bark of oak trees in UDSSR.
 Syn. of *Favognathus cucurbita* (Berlese) : Luxton, 1987:113
- ornatus* Ueckermann & Meyer, 1987 *Eustigmaeus* 8, from soil covered with different plants, from moss under *Pinus* sp. and from litter under *Acacia karroo* in Transvaal, South Africa.
- parmatus* Meyer & Ueckermann, 1989 *Molothrognathus* 2, from soil in Cape Province, South Africa.
- parsimilis* Ueckermann & Meyer, 1987 *Eryngiopos* 8, from *Diastella diwaricatea*, *Elytropappus scaber*, *Eugenia capensis*, *Erica coccinea*, *Heeria argentea*, *Tarchonantus camphoratus* and *Ipomoea purpurea* in Cape Province, South Africa.
- passerinae* Meyer & Ueckermann, 1989 *Eupalpopsellus* 5, from *Passerina vulgaris* in Cape Province, South Africa.
- peltatus* Meyer & Ueckermann, 1989 *Coptocheles* 2, from soil in Edenville, Soute Africa.
- petilus* Ueckermann & Meyer, 1987 *Stigmaeus* 8, from grass and soil in Mirabib (Namibia) and Pongola, South Africa.
- petrophilus* Kuznetzov & Petrova, 1979 *Stigmaeus* 8, from a cave in Western Grusinian, UDSSR.

- phoenixi* Meyer & Ueckermann, 1989 *Exothorhis* 5, from *Phoenix dactylifera* in Khartoum, Sudan.
- Phytocolis* Meyer & Ueckermann, 1989 *Molothrognathus* 2, from *Cambretum apiculatum*, *C. microphyllum*, *Colophospermum mopane*, *Boscia albitrunca* and *Aptosimum spinescens* in Namibia and Transvaal, South Africa.
- pieteri* Ueckermann & Meyer, 1987 *Stigmaeus* 8, from litter under *Acacia karroo* in Potchefstroom, South Africa.
- pistaciae* Bolland, 1986 *Camerobia* 3, on *Pistacia* in Zikhron Yakov, Israel.
- polinae* Kuznetsov, 1978 *Mediolata* 8, in UDSSR.
- polnicus* Bolland, 1986 *Tycherobius* 3, host and locality unknown, Poland.
- pongolensis* Meyer & Ueckermann, 1989 *Favognathus* 4, from soil in Pongola, South Africa.
- pseudolutens* Liang & Hu, 1987 *Stigmaeus* 8, in V.R. China.
- ptenopus* Ueckermann & Meyer, 1987 *Eustigmaeus* 8, from litter under *Acacia karroo* and from soil under *Pennisetum clandestinum* in Transvaal, South Africa.
- rarus* Kuznetsov, 1976 *Raphignathus* 7, from litter under deciduous forest trees in UDSSR.
- retiscutatus* Meyer & Ueckermann, 1989 *Eupalopsellus* 5, from *Helichrysum wilmsii* in Graskop, Transvaal, South Africa.
- rugosus* (Livshitz, 1974) *Favognathus* 4, on the bark of oak trees in UDSSR.
Cryptognathus rugosus Livshitz, 1974:1722
Cryptognathus (F.) *rugosus*
Favognathus rugosus: Luxton, 1987:113 .
- scutatus* Kuznetsov, 1976 *Raphignathus* 7, from litter under deciduous forest trees in UDSSR.
- scutovata* Meyer & Ueckermann, 1989 *Caligonella* 2, from *Abutilon* sp., and from soil in Transvaal, South Africa.
- siculus* Vacante & Gerson, 1987 *Eryngiopus* 8, on *Citrus limon* under shield of *Aspidiotus nerii* in Sicily, Italy.
- sinai* Swift, 1987 *Stigmaeus* 8, on *Phlebotomus papatasi* in Wadi Al-Arish, Egypt.
- spathatus* Ueckermann & Meyer, 1987 *Eustigmaeus* 8, from soil under *Pennisetum clandestinum* and from litter under *Acacia karroo* in Transvaal, South Africa.
- stercus* Kuznetsov & Petrova, 1979 *Stigmaeus* 8, from a cave in Kaptar-Hana, Turkmenia, UDSSR.
- stramenticola* Bolland, 1986 *Tycherobius* 3, from pine litter in Poland.
- stramineus* Ueckermann & Meyer, 1987 *Stigmaeus* 8, from litter under *Acacia karroo* in Transvaal, South Africa.
- summersi* Vacante & Gerson, 1987 *Eryngiopus* 8, on *Olea europaea* under shield of *Parlatoria oleae* in Sicily, Italy.
- succineus* Bolland & Magowski, 1990 *Neophyllobius* 3, from Baltic amber.
- tauricus* Kuznetsov, 1978 *Eryngiopus* 8, in UDSSR.
- tauricus* Kuznetsov, 1984 *Prostigmaeus* 8, in UDSSR.
- tecleae* Meyer & Ueckermann, 1989 *Xenocaligonellidus* 9, from *Teclea gerrardii* in Natal, South Africa.
- terrulenta* Ueckermann & Meyer, 1987 *Ledermuelleriopsis* 8, from litter and soil under different plants in Transvaal, South Africa.

terrulentus Meyer & Ueckermann, 1989 *Molothrognathus* 2, from soil in Edenville, Pongola in Transvaal and Cape Province, South Africa.

tumidus Kuznetzov, 1976 *Raphignathus* 7, from the litter under deciduous forest trees in UDSSR.

tumipalpus Meyer & Ueckermann, 1989 *Molothrognathus* 2, from soil in Dendron, Transvaal, South Africa.

vrystaatensis Ueckermann & Meyer, 1987 *Prostigmaeus* 8, from soil in Edenville and Pongola, South Africa.

The Replacement of Species in Alphabetical Order:

aureatus Summers & Chaudhri, 1965 *Cryptognathus* 4

Cryptognathus aureatus Summers & Chaudhri, 1965:325

Cryptognathus (C.) aureatus : Luxton, 1973:59

Cryptognathus aureatus : Luxton :1987:113.

australiensis Hirst, 1926 *Cryptognathus* 4

Cryptognathus australiensis Hirst, 1926:614

Cryptognathus (C.) australiensis : Luxton, 1973:58

Cryptognathus australiensis : Luxton. 1987:113

barrasi (Smiley & Moser, 1968) *Favognathus* 4

Cryptognathus barrasi Smiley & Moser, 1968:313

Cryptognathus (F.) barrasi : Luxton, 1973:58

Favognathus barrasi : Luxton, 1987:113

capensis (Meyer, 1969) *Parastigmaeus* 8

Pseudostigmaeus capensis Meyer, 1969:246

Parastigmaeus capensis : Kuznetzov, 1984:1105

congolensis Gonzales, 1965 *Agistemus* 8

Agistemus congolensis Gonzalez, 1965:41

Zetzelia congolensis : Sepas., 1985:447

Agistemus congolensis : Ueckermann & Meyer, 1987:383

cucullus Summers & Chaudhri, 1965 *Cryptognathus* 4

Cryptognathus cucullus Summers & Chaudhri, 1965:324

Cryptognathus (C.) cucullus : Luxton, 1973:59

Cryptognathus cucullus : Luxton, 1987:113

cucurbita (Berlese, 1916) *Favognathus* 4

Cryptognathus cucurbita Berlese, 1916:132

Cryptognathus (F.) cucurbita : Luxton, 1973:58

Favognathus cucurbita : Luxton, 1987:113

Syn.: *Cryptognathus orbiculatus* Livshitz, 1974 : Luxton, 1987:113

cucurbitellus (Meyer & Ryke, 1960) *Favognathus* 4

Cryptognathus cucurbita cucurbitella Meyer & Ryke, 1960:233

Cryptognathus cucurbitellus : Summers & Chaudhri, 1965:320

Cryptognathus (C.) cucurbitellus : Luxton, 1973:58

Favognathus cucurbitellus : Luxton, 1987:113

- dakotaensis* (McDaniel & Bolen, 1979) *Favognathus* 4
Cryptognathus (F.) *dakotaensis* McDaniel & Bolen, 1979:100
Favognathus dakotaensis
- denticulatus* (Luxton, 1973) *Favognathus* 4
Cryptognathus (F.) *denticulatus* Luxton, 1973:62
Cryptognathus denticulatus : Luxton, 1987:113
- eurytopus* Luxton, 1973 *Cryptognathus* 4
Cryptognathus (C.) *eurytopus* Luxton, 1973:66
Cryptognathus eurytopus : Luxton, 1987:113
- exserta* = *exsertus*
- exsertus* Gonzalez, 1963 *Agistemus* 8
Agistemus exsertus Gonzalez, 1963:343
Zetzellia exsertus : Wood, 1967:125
Agistemus exsertus : Meyer, 1969:256
Zetzellia exserta : Tseng, 1982:15
Agistemus exsertus : Meyer & Ueckermann, 1989:48
- favus* (Summers & Chaudhri, 1965) *Favognathus* 4
Cryptognathus favus Summers & Chaudhri, 1965:317
Cryptognathus (C.) *favus* : Luxton, 1973:58
Favognathus favus : Luxton, 1987:113
- floridensis* (McGregor, 1950) *Tillandsobius* 3
Neophyllobius floridensis McGregor, 1950:61
Tillandsobius floridensis : Bolland, 1986:205
- imbricatus* Summers & Chaudhri, 1965 *Cryptognathus* 4
Cryptognathus imbricatus Summers & Chaudhri, 1965:321
Cryptognathus (C.) *imbricatus* : Luxton, 1973:58
Cryptognathus imbricatus : Luxton, 1987:113
- incertus* Robaux, 1975 *Cryptognathus* 4
Cryptognathus (C.) *incertus* Robaux, 1975:264
Cryptognathus incertus
- insularis* (Luxton, 1973) *Favognathus* 4
Cryptognathus (F.) *insularis* Luxton, 1973:64
Favognathus insularis : Luxton, 1987:113
- lagnea* Kramer, 1879 *Cryptognathus* 4
Cryptognathus lagnea Kramer, 1879:154
Cryptognathus (C.) *lagnea* : Luxton, 1973:591
Cryptognathus lagnea : Luxton, 1987:113
 Syn.: *Cryptognathus corrugis* : Luxton, 1973:59
Cryptognathus sternalis : Luxton, 1973:59
- lateropunctatus* Luxton, 1973 *Cryptognathus* 4
Cryptognathus (C.) *lateropunctatus* Luxton, 1973:68
Cryptognathus lateropunctatus : Luxton, 1987:113
- leopardus* (Luxton, 1973) *Favognathus* 4
Cryptognathus (F.) *leopardus* Luxton, 1973:65
Favognathus leopardus : Luxton, 1987:113

- lombardini* (Summers & Schilinger, 1955) *Tycherobius* 3
Neophyllobius lombardini Summers & Schilinger, 1955:550
Tycherobius lombardini : Bolland, 1986:206
- luteolus* Summers & Chaudhri, 1965 *Cryptognathus* 4
Cryptognathus luteolus Summers & Chaudhri, 1965:324
Cryptognathus (C.) luteolus : Luxton, 1973:59
Cryptognathus luteolus : Luxton, 1987:113
- magnus* (Luxton, 1973) *Favognathus* 4
Cryptognathus (F.) magnus Luxton, 1973:62
Favognathus magnus : Luxton, 1987:113
- ochraceus* (Summers & Chaudhri, 1965) *Favognathus* 4
Cryptognathus ochraceus Summers & Chaudhri, 1965:318
Cryptognathus (F.) ochraceus : Luxton, 1973:58
Favognathus ochraceus : Luxton, 1987:113
- pictus* (Summers & Chaudhri, 1965) *Favognathus* 4
Cryptognathus pictus Summers & Chaudhri, 1965:319
Cryptognathus (F.) pictus : Luxton, 1973:58
Favognathus pictus : Luxton, 1987:113
- scutellatus* Summers & Chaudhri, 1965 *Cryptognathus* 4
Cryptognathus scutellatus Summers & Chaudhri, 1965:321
Cryptognathus (C.) scutellatus : Luxton, 1973:59
Cryptognathus scutellatus : Luxton, 1987:113
- striatus* Luxton, 1973 *Cryptognathus* 4
Cryptognathus (C.) striatus Luxton, 1973:71
Cryptognathus striatus : Luxton, 1987:113
- summersi* Robaux, 1975 *Cryptognathus* 4
Cryptognathus (C.) summersi Robaux, 1975:257
Cryptognathus summersi
- superbus* (Canestrini, 1889) *Tycherobius* 3
Neophyllobius superbus Canestrini, 1889:459
Tycherobius superbus : Bolland, 1986:206
- tenuis* Luxton, 1973 *Cryptognathus* 4
Cryptognathus (C.) tenuis Luxton, 1973:70
Cryptognathus tenuis : Luxton, 1987:113
- texasensis* (McDaniel & Bolen, 1979) *Favognathus* 4
Cryptognathus (F.) texasensis McDaniel & Bolen, 1979:93
Favognathus texasensis
- ultrarostratus* Summers & Chaudhri, 1965 *Cryptognathus* 4
Cryptognathus ultrarostratus Summers & Chaudhri, 1965:322
Cryptognathus (C.) ultrarostratus : Luxton, 1973:59
Cryptognathus ultrarostratus : Luxton, 1987:113

- virginiensis* (McGregor, 1950) *Tycherobius* 3
Neophyllobius virginiensis McGregor, 1950:69
Tycherobius virginiensis Bolland, 1986:208
- vulgaris* Luxton, 1973 *Cryptognathus* 4
Cryptognathus (C.) vulgaris Luxton, 1973:72
Cryptognathus vulgaris : Luxton, 1987:113
- woodi* Luxton, 1973 *Cryptognathus* 4
Cryptognathus (C.) woodi Luxton, 1973:68
Cryptognathus woodi : Luxton, 1987:113

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