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II. Addendum to the world species list of the superfamily Raphignathoidea (Acari)

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Abstract

A checklist of mite species of the superfamily Raphignathoidea described since 1990 is presented. The superfamily comprises now 9 families, 49 genera and 565 species.

Introduction

Sepasgosarian (1985) published a comprehensive list of the plant mites of the superfamily Raphignathoidea, comprising 9 families, 42 genera and 439 species. The taxonomic history, the development of investigations all over the world, the role of these mites for pest management and biological pest control as well as a complete reference list were presented there. Later, Sepasgosarian (1990) published the first addendum to the above list, including seven further genera and 130 species described by various authors.

Since then, some investigators have published numerous papers on this superfamily. In the present work, only such studies are included which describe new species. Gupta & David (1990) named one new species from India, Bolland (1991) reviewed the systematics of the family Camerobiidae and described 50 new species of *Neophyllobius* from all over the world. Luxton (1993) found 3 new species of the family Cryptognathidae in Israel and Gerson (1994) provided description of two new species of the family Eupalopsellidae from Australia. Altogether, the superfamily Raphignathoidea now comprises nine families, 49 genera and 565 species.

Every species listed below is accompanied by the author's name, date, the generic name, a number in square brackets (which indicates the relevant family listed below), a host and locality. A complete file catalogue and the literature cited in the main paper and addenda (Sepasgosarian 1985, 1990, present paper) is housed at the Zoological Museum of the University of Hamburg.

The families of the superfamily Raphignathoidea:

- [1] **Barbituidae** Robaux, 1975 (1 genus, 2 species)
- [2] **Caligonellidae** Grandjean, 1944 (4 genera, 28 species)
- [3] **Camerobiidae** Southcott, 1957 (5 genera, 103 species)

- [4] **Cryptognathidae** Oudemans, 1902 (2 genera, 38 species)
- [5] **Eupalopsellidae** Willmann, 1952 (6 genera, 26 species)
- [6] **Homocaligidae** Wood, 1969 (2 genera, 5 species)
- [7] **Raphignathidae** Kramer, 1877 (3 genera, 44 species)
- [8] **Stigmaeidae** Oudemans, 1931 (24 genera, 315 species)
- [9] **Xenocaligonellidae** Gonzalez, 1978 (2 genera, 4 species)

A list of recently described species of the superfamily Raphignathoidea in alphabetical order:

- acaciae** Bolland, 1991: *Neophyllobius* [3] on a unknown tree in Nelspruit, Republic of South Africa (RSA)
- aegyptium** Kandeel & Nasser, 1983: *Exothorhis* [5] on citrus tree, associated with scale insects in Sharkeia, Egypt
- arenarius** Bolland, 1991: *Neophyllobius* [3] on sand pine can traps in Winter Haven, Florida, USA
- armeniaca** Bolland, 1991: *Neophyllobius* [3] on apricot in New Zealand
- atriplicis** Bolland, 1991: *Neophyllobius* [3] on *Atriplex canescens* in El Paso Co., Colorado, USA
- attenuatus** Luxton, 1993: *Cryptognathus* [4] from tree bark in Israel
- bequartiodendri** Bolland, 1991: *Neophyllobius* [3] on *Bequartiodendron magalismon-tanum* in Blijderivier Poort, RSA
- bialagorensis** Bolland, 1991: *Neophyllobius* [3] in soil, litter and plants in Sztum, Poland
- binisetosus** Bolland, 1991: *Neophyllobius* [3] on moss-straw litter in Beneton Co., Oregon, USA
- capparidis** Bolland, 1991: *Neophyllobius* [3] on *Capparis ciltifolia* in Addo National Park, RSA
- ceratoniae** Bolland, 1991: *Neophyllobius* on *Ceratonia siliqua* in Valencia, Spain
- coimbatorensis** Gupta & David, 1990: *Eryngiopus* [8] on sugarcane, associated with scale insect *Sacchricoccus saccharis* (Cockerell) in Coimbatore, Tamil Nadu, India
- coloradensis** Bolland, 1991: *Neophyllobius* [3] on grass in Nunn, Colorado, USA
- combreticola** Bolland, 1991: *Neophyllobius* [3] on *Combretum apiculatum* in Messina, RSA
- conacarp** Bolland, 1991: *Neophyllobius* [3] on orange in Florida, USA
- cordylus** Luxton, 1993: *Favognathus* [4] from pine litter in Israel
- coxalis** Bolland, 1991: *Neophyllobius* [3] in litter, in El Paso Co., Colorado, USA
- danthoniae** Bolland, 1991: *Neophyllobius* [3] on *Danthonia spicata* in Missouri, USA
- deleoni** De Leon, 1958: *Neophyllobius* [3] **nom. nov.** of *Neophyllobius horridus* De Leon, 1958: 178-179 (not Berlese, 1886); Bolland 1991: 132.
- dichantii** Bolland, 1991: *Neophyllobius* [3] on *Dichanthium papillosum* in Gatooma, RSA
- dickansonii** Bolland, 1991: *Neophyllobius* [3] on *Manzanita* litter in Klamath Co., Oregon, USA
- echinocactii** Gerson, 1994: *Exothorhis* [5] feed on armoured scale in Australia
- eragrostidis** Bolland, 1991: *Neophyllobius* [3] on *Eragrostis* sp. in Roodeplaat, RSA
- femoralis** Bolland, 1991: *Neophyllobius* [3] on palm tree in Fayoum, Egypt

- gersoni** Luxton, 1993: *Favognathus* [4] from moss in Israel
- gigantorum** Bolland, 1991: *Neophyllobius* [3] from unknown host in Giants Castle, RSA
- graminicola** Bolland, 1991: *Neophyllobius* [3] on sedge in Springfield, USA
- graminum** Bolland, 1991: *Neophyllobius* [3] on *Phylica nigrita* in Die Kelders, RSA
- hispanicus** Bolland, 1991: *Neophyllobius* [3] on orange leaves in Spain
- horridus** De Leon, 1958: *Neophyllobius* [3] (see *deleoni*)
- hypoleanae** Bolland, 1991: *Neophyllobius* [3] on *Hypoleana digitata* in Kaappunt, RSA
- interruptus** Bolland, 1991: *Neophyllobius* [3] on citrus leaves in Florida, USA
- jamesi** Gerson, 1994: *Eupalopsis* [5] feed on armoured scale in Australia
- lachishensis** Bolland, 1991: *Neophyllobius* [3] on pine litter in Lachis, Israel
- lanceolatus** Bolland, 1991: *Neophyllobius* [3] on *Platanum acerifolia* in Montpellier, France
- levanticola** Bolland, 1991: *Neophyllobius* [3] under stones in Arad, Israel
- meyerae** Bolland, 1991: *Neophyllobius* [3] on grass in Jozini, RSA
- montanus** Bolland, 1991: *Neophyllobius* [3] from unknown host in Giants Castle, RSA
- muscantribii** Bolland, 1991: *Neophyllobius* [3] on grass in Oribi Gorge, RSA
- niloticus** Bolland, 1991: *Neophyllobius* [3] on palm tree in Beni-Suif, Egypt
- oregonensis** Bolland, 1991: *Neophyllobius* [3] on grass in Wasco Co., USA
- panici** Bolland, 1991: *Neophyllobius* [3] unknown host in St. Luciameer, RSA
- parisianus** Bolland, 1991: *Neophyllobius* [3] on *Platanus* sp. in Versailles, France
- parthenocissi** Bolland, 1991: *Neophyllobius* [3] on *Parthenocissus tricuspidata* in Washington D.C., USA
- platanobius** Bolland, 1991: *Neophyllobius* [3] on *Platanus acerifolia* in Montpellier, France
- plumifer** Bolland, 1991: *Neophyllobius* [3] on bark of *Pinus sylvestris* in Warszawa, Poland
- podocarpi** Bolland, 1991: *Neophyllobius* [3] on *Podocarpus* sp. in Gainesville, Florida, USA
- ponderosus** Bolland, 1991: *Neophyllobius* [3] on Aspen Pine in Harney Co., Oregon, USA
- pruni** Bolland, 1991: *Neophyllobius* [3] on apple bark in Boone Co., Montana, USA
- quinquepilis** Bolland, 1991: *Neophyllobius* [3] on *Danthonia spicata* in Lancaster, Ohio, USA
- sanctaeluciaae** Bolland, 1991: *Neophyllobius* [3] on wild shrub near St. Luciameer in RSA
- setosus** Bolland, 1991: *Neophyllobius* [3] on *Myrtus* sp. in Rehovot, Israel
- sturmerwoodi** Bolland, 1991: *Neophyllobius* [3] on Gelatine Orchard in Woolston Church, New Zealand
- tamarindi** Bolland, 1991: *Neophyllobius* [3] on *Tamarindus indica* in Florida, USA
- tenuipilis** Bolland, 1991: *Neophyllobius* [3] on *Khaya* bark in Rehovot, Israel
- theobromae** Bolland, 1991: *Neophyllobius* [3] on cacao in Nandaime, Nicaragua

ueckermanni Bolland, 1991: *Neophyllobius* [3] on undetermined host in Badplaas, RSA

vandebundi Bolland, 1991: *Neophyllobius* [3] on the soil under *Corynephorus* sp. in Ouddorp, Netherlands

viticola Bolland, 1991: *Neophyllobius* [3] on *Vitis vinifera* in Valras, France

Zusammenfassung

Die Arten der Überfamilie Raphignatoidea wurden jeweils 1985 und 1990 zusammengestellt. Seither veröffentlichte neue Arten wurden den bestehenden Listen beigelegt sowie dokumentiert und katalogisiert. Die Überfamilie umfaßt 9 Familien, 49 Gattungen und 565 Arten.

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