

# Subdivision of the family Kinnaridae into subfamilies and tribes (Homoptera, Fulgoroida)

A.F. Emeljanov

Emeljanov, A.F. 2006. Subdivision of the family Kinnaridae into subfamilies and tribes (Homoptera, Fulgoroida). *Zoosystematica Rossica*, **15**(1): 77-78.

Kinnaridae are subdivided into two subfamilies: Kinnarinae with a single tribe and Proprotropinae with tribes Proprotropini, Kinnocciini trib. n., Oeclediini trib. n. and Adolendini (= Propleromini, Emeljanopleromini, synn. n.). A key to the subfamilies and tribes is given.

A.F. Emeljanov, Zoological Institute, Russian Academy of Sciences, Universitetskaya nab. 1, St.Petersburg 199034, Russia. E-mail: hemipt@zin.ru

In spite of some progress in study of the Kinnaridae in the course of two last decades (Emeljanov, 1984; Remane, 1985; Bourgoin, 1993), the classification of this family remains unsatisfactory. Bourgoin (1993) proposed in his short publication a cladogram of Kinnaridae and Meenoplidae based on a computer calculation of different data, but did not indicate concrete synapomorphies.

Bourgoin's cladogram confirms the monophyly of Proprotropinae (sensu Fennah, 1945) and affinity of the Canarian genera *Kinnoccia* Rem. and *Kinnocana* Rem. to this taxon, in accordance with Remane's opinion. On the contrary, the separation of the New World genera *Oeclelidius* and *Southia* raises strong doubt. Material examined by me (some species of *Oeclelidius* and unidentified species of *Southia*) shows affinity of these genera and their significant difference from the Old World genera *Adolenda* Dist., *Bashgultala* Dlab. and *Perloma* Em. (= *Emeljanopleroma* Kocak). Now, I consider that it will be correct to synonymize Propleromini Em. (= Emeljanopleromini Kocak) with Adolendini Em. and to establish two new tribes, Kinnocciini trib. n. and Oeclediini trib. n. Distinctions of all tribes of the family are given in the synoptic key below.

## Key to subfamilies and tribes of Kinnaridae

- 1(8). Costal vein of fore wing strong from base up to nodus. Branches of *RP* and *M* free. Common claval vein (*Pcu* + *A*<sub>1</sub>) reaching hind margin of clavus (vein *A*<sub>2</sub>) (i.e., cixioid clavus) (Subfam. Proprotropinae Fennah, 1945).
- 2(5). Metope with complete or incomplete median carina, comparatively broad, its lateral carinae of moderate height. Integument dull, shagreened.
- 3(4). Basal cell of fore wing closed by normally developed arculus. Wax-field in female on abdominal segments VII and VIII only . . . . . tribe **Proprotropini** Fennah, 1945

- 4(3). Basal cell of fore wing closed by anastomosis of *M* and *CuA*. Wax-field in female on abdominal segments VI, VII and VIII . . . . . tribe **Kinnocciini** trib. n.
- 5(2). Metope without median carina, narrow, with high lateral carinae.
- 6(7). Median carina of pronotum crossing fore carina and prolonged in front of it. Basal cell of fore wing closed by normally developed arculus . . . . . tribe **Oeclediini** trib. n.
- 7(6). Median carina of pronotum reaching fore carina but not prolonged in front of it. Basal cell of fore wing closed by anastomosis of *M* and *CuA* . . . . . tribe **Adolendini** Emeljanov, 1984
- 8(1). Costal vein of fore wing weakened in distal part like peripheral vein of wing membrane. Branches *RP* and *M* with anastomosis at nodal level. Common claval vein reaching *CuP* before claval apex (achiloid clavus) (Subfam. Kinnarinae Muir, 1925) . . . . . tribe **Kinnarini** Muir, 1925

## Systematic check-list of Kinnaridae Muir, 1925

Subfamily PROTOTROPINAE Fennah, 1945

Tribe **Oeclediini** trib. n.

*Oeclelidius* Van Duzee, 1914 (*Paroeclelidius* Myers, 1928); *Southia* Kirkaldy, 1904 (*Paulia* Stål, 1869, nom. praeocc.; *Bytrois* Fennah, 1945); *Micrixia* Fowler, 1904.

Tribe **Adolendini** Emeljanov, 1984

Propleromini Emeljanov, 1984, **syn. n.**  
Emeljanopleromini Kocak, 1986, **syn. n.**

*Bashgultala* Dlabola, 1957; *Paramicrixia* Distant, 1911; *Adolenda* Distant, 1911 (*Adolina* Emeljanov, 1984, subgen.); *Perloma* Emeljanov, 1984, stat. n. (*Propleroma* Emeljanov, 1984, nom. praeocc.; *Micricodes* Emeljanov, 1984, subgen.; *Emeljanopleroma* Kocak, 1986, subgen.); *Nesomicrixia* Emeljanov, 1984.

Tribe **Kinnocciini** trib. n.

*Kinnoccia* Remane, 1985; *Kinnocana* Remane, 1985.

Tribe **Prosotropini** Fennah, 1945

*Atopocixius* Muir, 1926; *Dineparmene* Fennah, 1945; *Eparmene* Fowler, 1904; *Eparmenoides* Fennah, 1945; *Lomagenes* Fennah, 1945; *Microissus* Fennah, 1947; *Oreopenes* Ramos, 1957; *Prosotropis* Uhler, 1895 (*Paraprosotropis* Ramos, 1957); *Quilessa* Fennah, 1942.

## Subfamily KINNARINAE Muir, 1925

Tribe **Kinnarini** Muir, 1925

*Kinnara* Distant, 1906 (*Pleroma* Melichar, 1903, nom. praeocc.).

**References**

- Bourgoin, T.** 1993. Cladistic analysis of the Meenopliidae–Kinnaridae genera: the Kinnaridae, a paraphyletic family (Hemiptera, Fulgoromorpha). *In*: Drosopoulos, S., Petrakis, P.V., Claridge, M.F. & de Vrijer, P.W.F. (Eds), *Proc. 8th Auchenorrhyncha Congr., Delphi, Greece, 1993*: 22-24.
- Emeljanov, A.F.** 1984. To the knowledge of the families Kinnaridae and Meenopliidae (Homoptera, Fulgoroidea). *Entomol. Obozrenie*, **63**(3): 468-483. (In Russian).
- Fennah, R.G.** 1945. Tropiduchidae and Kinnaridae from the Greater Antilles (Homoptera: Fulgoroidea). *Psyche*, **52**: 119-138.
- Fennah, R.G.** 1945. The Fulgoroidea, or lanternflies, of Trinidad and adjacent parts of South America. *Proc. U.S. nat. Mus.*, **95**: 411-520.
- Remane, R.** 1985. Kinnaridae in SW-Paläarktis: zwei neue Taxa von den Kanaren (Homoptera Fulgoromorpha). *Marburger entomol. Publ.*, **1**(10): 241-264.

Received 11 January 2006