

115. Family NYCTERIBIIDAE

By T. C. Maa

Members of this family are apterous, spider-like, pupiparous and, like the Streblidae, are parasitic exclusively on bats. Both sexes are hematophagous. The body is compressed dorsoventrally to such a degree that the head and legs arise from the dorsal surface of the thorax.

Females deposit fully developed prepupae singly. This process may be repeated several times during the female's lifetime. The puparia are shining black, strongly flattened, and may easily be mistaken for whitefly (aleyrodid) nymphs. They are glued to vertical substrata (cave walls, trees, etc.) in the immediate vicinity of the host bat roosts.

The family is predominantly paleotropical. About 260 species in 13 genera and 3 subfamilies have been described worldwide. The subfamilies are distinctive in geographic ranges and host relationships: Archinycteribiinae range from Malaysia to the Bismarck Archipelago and are

restricted to megachiropteran bats; Cyclopodiinae are widespread throughout paleotropical areas and are also restricted to Megachiroptera; Nycteribiinae are found worldwide and are parasitic on Microchiroptera (among which the Vespertilionidae are the most preferred) and comprise almost 75% of the species of the family. Host specificity of most species is high.

The nycteribiid fauna of the Australasian/Oceanian Regions is fairly rich. Most of the species are concentrated on the land masses of New Guinea and Australia. One of the 9 genera listed in this catalog, *Stereomyia* is endemic to the regions covered here. Another endemic genus is undescribed.

Refs.: Theodor (1967, world rev.), Maa (1971b, bibliogr.).

Subfamily ARCHINYCTERIBIINAE

Genus ARCHINYCTERIBIA Speiser

ARCHINYCTERIBIA Speiser, 1900b: 30 [1901: 20]. Type species: *Archinycteribia actena* Speiser, 1900, mon.

actena Speiser, 1900b: 31 [1901: 21]. PNG (Bismarck Arch); Australia (Qld), Indonesia (Irian Jaya, Maluku), PNG (PNG), Solomon Is; Indonesia (Sulawesi).

Subfamily CYCLOPODIINAE

Genus CYCLOPODIA Kolenati

OXYCEPHALUS Bigot, 1860b: 226. Type species: *Nycteribia oxycephala* Bigot, 1860, taut. [Preocc. Milne-Edwards, 1830.]

CYCLOPODIA Kolenati, 1863: 82. Type species: *Nycteribia sykesii* Westwood, 1835, des. Scott, 1917: 607.

albertisii Rondani, 1878: 150. Indonesia (Maluku); Australia (NSW, NT, Qld, WA), Belau, Indonesia (Irian Jaya), PNG (PNG).

pleropus Rainbow, 1904: 78 (*Nycteribia*). Australia (Qld).

novaguineae Schuurmans Stekhoven, 1959: 261. Indonesia (Irian Jaya).

albertisi, error for *albertisii*.

aspinosa Maa, 1966c: 655. PNG (PNG).

australis Theodor, 1959: 258. Australia (Qld); Australia (NSW, NT, WA).

bougainvillensis Theodor, 1959: 263. PNG (Bougainville I); PNG (PNG), Solomon Is.

- ssp. *bougainvillensis* s. str. PNG (Bougainville I); Solomon Is.
 ssp. *petersi* Maa, 1962a: 429. PNG (PNG).
dorsinuda Maa, 1966c: 657. PNG (Bougainville I); Solomon Is.
inclita Falcoz, 1927: 5. Western Samoa; American Samoa, Fiji, Tonga.
inflatipes Speiser, 1900a: 291 [1901: 47]. PNG (PNG); Indonesia (Irian Jaya).
ligula Maa, 1966c: 651. PNG (PNG).
macracantha Theodor, 1959: 267. Solomon Is; PNG (Bougainville I).
 ssp. *longiseta* Maa, 1968: 23. PNG (Bougainville I).
 ssp. *macracantha* s. str. Solomon Is.
minor Speiser, 1900a: 291 [1901: 45]. PNG (Bismarck Arch).
oxycephala Bigot, 1860b: 227 (*Nycteribia*). New Caledonia (Loyalty Is); New Caledonia (New Caledonia), Solomon Is, Vanuatu.
pembertoni Scott, 1932b: 27. Fiji; Western Samoa.
planipyga Maa, 1968: 19. Vanuatu.
ponapensis Theodor, 1959: 265. Micronesia.
similis Speiser, 1900a: 292 [1901: 41]. PNG (Bismarck Arch); Indonesia (Maluku), PNG (PNG).
solomonarum Theodor, 1959: 283. Solomon Is.
sycophanta Maa, 1971a: 23. PNG (PNG); Australia (NSW, Qld), Indonesia (Irian Jaya).
 ssp. *euronoti* Maa, 1971a: 27. Australia (NSW); Australia (Qld).
 ssp. *sycophanta* s. str. PNG (PNG); Indonesia (Irian Jaya).
tenuis Schuurmans Stekhoven & Hardenberg, 1938: 18. Indonesia (Java); Indonesia (Maluku); E Oriental Reg.
truncata Theodor, 1959: 282. PNG (Bismarck Arch).

Genus EUCAMPSIPODA Kolenati

- EUCAMPSIPODA* Kolenati, 1857: 62. Type species: *Nycteribia hyrtlü* Kolenati, 1856, des. Theodor, 1955: 196.
divisa Maa, 1962a: 427. Solomon Is.
inermis Theodor, 1955: 215. Philippines; Indonesia (Irian Jaya), PNG (Bismarck Arch, PNG); Oriental Reg.

Genus LEPTOCYCLOPODIA Theodor

- LEPTOCYCLOPODIA* Theodor, 1959: 284 (*Cyclopodia* subg.). Type species: *Nycteribia ferrarii* Rondani, 1878, orig. des.

Subgenus ONCOPOSTHIA Maa

- ONCOPOSTHIA* Maa, 1966c: 660. Type species: *Cyclopodia macrura* Speiser, 1900, orig. des.
macrura Speiser, 1900a: 292 [1901: 43] (*Cyclopodia*). PNG (Bismarck Arch); Australia (Qld), Indonesia (Maluku), PNG (PNG); Indonesia (Nusa Tenggara).
 ssp. *ambonae* Maa, 1966c: 668. Indonesia (Maluku).
 ssp. *macrura* s. str. PNG (Bismarck Arch); Australia (Qld), Indonesia (Irian Jaya), PNG (PNG); Indonesia (Nusa Tenggara).
orthotricha Theodor, 1959: 297 (*Cyclopodia*). Solomon Is; PNG (Bougainville I).
planiseta Maa, 1966c: 662. PNG (Bismarck Arch).

Subfamily NYCTERIBIINAE

Genus BASILIA Miranda Ribeiro

- BASILIA* Miranda Ribeiro, 1905: 177. Type species: *Basilias ferruginea* Miranda Ribeiro, 1905, mon.
PSEUDELYTROMYIA Miranda Ribeiro, 1907: 233. Type species: *Pseudelytromyia speiseri* Miranda Ribeiro, 1907, mon.

- TRIPSELIA* Scott, 1917: 608. Type species: *Nycteribia fryeri* Scott, 1914 [= *Phthiridium blainvillii* Leach, 1817], orig. des.
- aitkeni* Maa, 1971a: 49. Australia (NSW); Australia (Qld).
- barbarae* Maa, 1971a: 51. Australia (Tas); Australia (ACT, NSW, Vic).
- brevicauda* Musgrave, 1925: 295 (*Nycteribia*). Australia (NSW); Australia (ACT, Qld, Vic, WA).
- burrelli* Musgrave, 1927: 272 (*Nycteribia*). Australia (NSW); Australia (SA).
- ?*varipes* Rudow, 1871: 123 [1872: 408] (*Nycteribia*). Not given [Australia].
- dispar* Speiser, 1900b: 42 [1901: 32] (*Nycteribia*). PNG (PNG); Indonesia (Irian Jaya).
- hirsuta* Theodor, 1956: 363 (*Tripselia*). PNG (PNG).
- horrida* Schuurmans Stekhoven, 1958: 386 (*Tripselia*). Indonesia (Irian Jaya).
- falcozi* Musgrave, 1925: 292 (*Nycteribia*). Australia (SA); Australia (NSW, NT, Qld, WA).
- forcipala* Ferris— not Australasian/Oceanian.
- halei* Musgrave, 1927: 271 (*Nycteribia*). Australia (SA); Australia (ACT, NT, Qld, WA).
- hamsmithi* Maa, 1971a: 46. Australia (NSW); Australia (Qld).
- longispinosa* Musgrave, 1927: 274 (*Nycteribia*). Australia (NSW); Australia (Qld).
- magnoculus* Schuurmans Stekhoven, 1942: 533 (*Penicillidia*). Indonesia (Java); Indonesia (Maluku); Indonesia (Kalimantan), Malaysia (Pen).
- multispinosa* Musgrave, 1927: 268 (*Nycteribia*). Australia (NSW); Australia (Qld, Tas).
- musgravei* Theodor, 1967: 330. Australia (Qld); Australia (NSW).
- nodulata* Maa, 1971a: 59. Australia (NSW).
- techna* Maa, 1971a: 38. Australia (Qld); Australia (NT).
- transversa* Maa, 1971a: 73. Australia (ACT); Australia (Tas).
- troughtoni* Musgrave, 1927: 265 (*Nycteribia*). Australia (NSW); Australia (ACT, SA, Vic, WA).

Nomen nudum in Basilia Miranda Ribeiro

ventriosa Maa, 1982: 707.

Genus NYCTERIBIA Latreille

- NYCTERIBIA** Latreille, 1796: 176. Type species: *Nycteribia pedicularia* Latreille, 1803, des. I.C.Z.N., 1936: 29.
- LISTROPODA** Kolenati, 1857: 62. Type species: *Nycteribia blasii* Kolenati, 1856 [= *Nycteribia schmidlii* Schiner, 1853], des. Coquillett, 1910: 562.
- ACROCHOLIDIA** Kolenati, 1857: 62. Type species: *Acrocholidia bechsteinii* Kolenati, 1857 [= *Nycteribia vexata* Westwood, 1835], des. Coquillett, 1910: 502.
- NYCTERIPHILA** Grulich & Povolny, 1955: 116, 128. Type species: *Nycteribia schmidlii* Schiner, 1853, orig. des.
- allotopa** Speiser, 1900b: 47 [1901: 37]. Indonesia (Sumatra); Australia (NSW, Qld), Indonesia (Irian Jaya, Maluku), PNG (PNG); widesp. Oriental Reg.
- ssp. **allotopa** s. str. Indonesia (Sumatra); Indonesia (Irian Jaya, Maluku), PNG (PNG); widesp. Oriental Reg.
- ssp. **meridiana** Maa, 1971a: 90. Australia (Qld); Australia (NSW).
- alternata** Maa, 1962a: 418. "Kamerun," error [= Australia]; Australia (NSW, NT, Qld, WA); PNG (PNG).
- spinosa* Theodor, 1967: 110. Australia (Qld).
- bakeri** Scott, 1932a: 21. Vanuatu; ?Australia (Qld).
- papuensis** Theodor, 1967: 105. PNG (PNG).
- parilis** Walker, 1861d: 300. Indonesia (Maluku); widesp. Australia, Indonesia (Irian Jaya), PNG (PNG); Indonesia (Timor).
- ssp. **parilis** s. str. Indonesia (Maluku); Indonesia (Irian Jaya), PNG (PNG); Indonesia (Timor).
- tolisina* Muir, 1912: 356, 358 (*Lipoptena*; as sp.). Indonesia (Maluku).
- tolisima*, error for *tolisina*.
- ssp. **vicaria** Maa, 1971a: 90. Australia (SA); widesp. Australia.

- parvula* Speiser, 1900b: 48 [1901: 38]. Indonesia (Sumatra); Indonesia (Irian Jaya, Maluku), PNG (PNG); widesp. Oriental Reg.
rothschildi Theodor, 1967: 107. Solomon Is.
sarasini Falcoz, 1921: 237 [1923: 89]. New Caledonia (Loyalty Is); New Caledonia (New Caledonia).

Genus **PENICILLIDIA** Kolenati

- MEGISTOPODA* Kolenati, 1857: 62. Type species: *Nycteribia dufourii* Westwood, 1835, pres. des. [Preocc. Macquart, 1852.]
PENICILLIDIA Kolenati, 1863: 69. Type species: *Nycteribia dufourii* Westwood, 1835, des. Speiser, 1900b: 32 [1901: 22].

Subgenus **EREMOCTENIA** Scott

- EREMOCTENIA** Scott, 1917: 600 (as gen.). Type species: *Penicillidia progressa* Muir, 1912, mon. *progressa* Muir, 1912: 356, 357. Indonesia (Maluku).
vandeuseni Maa, 1962a: 423 (*Eremoctenia*). PNG (PNG); Australia (NSW, Qld, SA), Indonesia (Irian Jaya).

Subgenus **PENICILLIDIA** Kolenati

- MEGISTOPODA* Kolenati, 1857: 62 (as gen.). Type species: *Nycteribia dufourii* Westwood, 1835, pres. des. [Preocc. Macquart, 1852.]
PENICILLIDIA Kolenati, 1863: 69 (as gen.). Type species: *Nycteribia dufourii* Westwood, 1835, des. Speiser, 1900b: 32 [1901: 22].
STYLOPENICILLIDIA Speiser, 1908: 438. Type species: *Nycteribia dufourii* Westwood, 1835, orig. des. *buxtoni* Scott, 1932a: 17. Vanuatu.
dufourii Westwood, 1835a: 138 [1835b: 290] (*Nycteribia*; [essentially as] n. n. for *vespertilionis* Dufour). France; PNG (PNG); Philippines, Taiwan, widesp. Palearctic Reg.
vespertilionis Dufour, 1831: 381 (*Nycteribia*). Suppressed by I.C.Z.N., 1936: 29.
miriamae Theodor, 1967: 387. Solomon Is.
oceanica Bigot, 1885l: 246 (*Nycteribia*). New Caledonia (New Caledonia); widesp. Australia (excl. Tas), New Caledonia (Loyalty Is).
setosala Maa, 1971a: 79. PNG (PNG); Australia (NSW, Qld), Indonesia (Irian Jaya).
spinifera Theodor, 1967: 395. Solomon Is.
spinosa, error for *spinifera*.
tectisentis Maa, 1971a: 81. Australia (SA); Australia (NSW, Qld, Vic).

Genus **PHTHIRIDIUM** Hermann

- PHTHIRIDIUM** Hermann, 1804: 12. Type species: *Phthiridium biarticulatum* Hermann, 1804, des. Coquillett, 1910: 590.
CELERIPES Montagu, 1813: 11. Type species: *Nycteribia vespertilionis* Montagu, 1813 [suppressed by I.C.Z.N., 1936: 29, = *Phthiridium biarticulatum* Hermann, 1804], mon.
STYLIDIA Westwood, 1840: 154 (*Nycteribia* subg.). Type species: *Phthiridium biarticulatum* Hermann, 1804, orig. des.
curvatum Theodor, 1967: 137 (*Stylidia*). PNG (PNG); Australia (NSW, Qld, Vic).
phthisicum Speiser, 1907: 295 (*Nycteribia*). Indonesia (Maluku); Indonesia (Sulawesi).
torresi Theodor, 1967: 180 (*Stylidia*). Australia (Qld); Indonesia (Irian Jaya), PNG (PNG).

Genus **STEREOMYIA** Theodor

- STEREOMYIA** Theodor, 1967: 338. Type species: *Stereomyia armata* Theodor, 1967, orig. des. *armata* Theodor, 1967: 339. PNG (PNG).

Unplaced species of Nycteribiidae

elongata Rudow, 1871: 122 [1872: 408] (*Nycteribia*). Not given [Australia].

quadrata Theodor, 1967: 333 (*Basilina*). PNG (PNG).

***Nomen nudum* in Nycteribiidae**

TETRAGONIOLA Maa, 1982: 707.