

List of species in tribe Culicini with published illustrations and/or descriptions of eggs (Diptera: Culicidae)

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Abstract

Species of the mosquito tribe Culicini with published illustrations and/or morphological descriptions of the egg stage are listed with their literature citations.

Key words: Diptera, Culicidae, Culicini, *Barraudius*, *Carrollia*, *Culex*, *Culiciomyia*, *Deinocerites*, *Eumelanomyia*, *Lophoceraomyia*, *Lutzia*, *Melanoconion*, *Metalutzia*, *Micraedes*, *Microculex*, *Neoculex*, *Oculeomyia*, mosquito, eggs

Introduction

A listing of species in the mosquito tribe Culicini Meigen with published illustrations and/or descriptions of eggs is provided below and includes literature citations. Many of the publications include descriptive information in addition to the illustrations of the egg; however, some descriptions are very brief. Also, publications with egg rafts illustrated in which the characteristics and shape of individual eggs can be determined are included below. The identifications of species of tribe Culicini utilized in the cited literature are reported in the following list. The latest listing of currently valid species and generic-level taxa reported in the Mosquito Taxonomic Inventory (<http://mosquito-taxonomic-inventory.info>, accessed 26 August 2010) was utilized.

The following list denotes illustrations (by 1) and descriptions (by 2) following the literature citations after each species. Listings of species with descriptions and/or illustrations of eggs were published previously for tribe Aedini (Reinert, 2005), subfamily Anophelinae (Reinert, 2010a), tribe Mansoniini (Reinert, 2010b), tribes Toxorhynchitini and Uranotaeniini (Reinert, 2010c), tribe Sabethini (Reinert, 2010d), tribes Aedeomyiini and Culisetini (Reinert, 2010e) and tribes Ficalbiini, Hodgesiini and Orthopodomyiini (Reinert, 2010f). Abbreviations of genera and subgenera follow Reinert (2009).

Tribe Culicini Meigen, 1818

Species of genus *Culex* Linnaeus with the egg illustrated and/or described

Culex (Barraudius) modestus Ficalbi: Callot & Dao Van-Ty, 1943 (1, 2); Mattingly, 1975 (1, 2).

Culex (Carrollia) urichii (Coquillett): Chadee & Tikasingh, 1986 (1, 2).

Culex (Culex) annulirostris Skuse: Buxton & Hopkins, 1927 (1).

Cx. (Cux.) antennatus (Becker): Larivière & Abonnenc, 1956 (1, 2).

Cx. (Cux.) gelidus Theobald: Berlin & Subramanian, 1974 (1, 2).

Cx. (Cux.) nigripalpus Theobald: Howard *et al.*, 1915 (2, as *similis* Theobald); Chadee & Haeger, 1986 (1, 2).

Cx. (Cux.) pipiens Linnaeus: Theobald, 1901 (1, 2); Mitchell, 1907 (1); Howard *et al.*, 1913 (1), 1915 (2); Séguy, 1921 (1, 2); Matheson, 1929 (1); Roubaud, 1935 (1, 2); Marshall, 1938 (1, 2); Christophers, 1945 (1, 2); Natvig, 1948 (1, 2); Knight, 1951 (2); Knight & Abdel-Malek, 1951 (2); Clements, 1963 (1); Ross & Horsfall, 1965 (1); Forattini, 1965 (1, 2); Mattingly, 1971 (1); Matsuo *et al.*, 1972 (1, 2, as *pipiens pallens* Coquillett); Dahl, 1978 (1, 2), 1997 (1); Hinton, 1981 (1).

Cx. (Cux.) quinquefasciatus Say: Blanchard, 1905 (1, as *pungens* Wiedemann); Goeldi, 1905 (1, 2, as *fatigans* Wiedemann); Banks, 1908 (1, 2, as *fatigans*); Buxton & Hopkins, 1925 (1, 2, as *fatigans*), 1927 (1, as *fatigans*); Paine, 1943 (2); Mattingly, 1969 (1, as *pipiens fatigans*); Forattini, 1996 (1); Reinert *et al.*, 2004 (2), 2006 (2), 2008 (2), 2009 (2).

Cx. (Cux.) restuans Theobald: Dyar, 1902 (2); Mitchell, 1907 (1); Howard *et al.*, 1913 (1); Ross, 1947 (1); King *et al.*, 1960 (1).

Cx. (Cux.) salinarius Coquillett: Mitchell, 1907 (1); Howard *et al.*, 1913 (1).

Cx. (Cux.) sitiens Wiedemann: Mochizuki, 1913 (2, as *tripunctatus* Mochizuki); Chadee & Bennett, 1988 (1, 2).

Cx. (Cux.) tarsalis Coquillett: Rosay, 1959 (1, 2); Mosse & Hartman, 1980 (1).

Cx. (Cux.) theileri Theobald: van der Linde *et al.*, 1988 (1, 2).

Cx. (Cux.) torrentium Martini: Dahl, 1978 (1, 2).

Cx. (Cux.) tritaeniorhynchus Giles: Iwaki *et al.*, 1993 (1, 2).

Culex (Culiciomyia) dispectus Bram: Mattingly, 1975 (1, 2).

Cx. (Cui.) fragilis Ludlow: Mattingly, 1975 (1, 2).

Cx. (Cui.) pallidothorax Theobald: Bohart & Ingram, 1946 (1, 2); Mattingly, 1975 (1, 2).

Culex (Eumelanomyia) brevipalpis (Giles): Mattingly, 1975 (1, 2).

Cx. (Eum.) hayashii Yamada: Bohart & Ingram, 1946 (1, 2); Mattingly, 1970 (1).

Culex (Lophoceraomyia) infantulus Edwards: Bohart & Ingram, 1946 (1, 2); Mattingly, 1975 (1, 2).

Cx. (Lop.) orbstiensis Dobrotworsky: Dobrotworsky, 1958 (1, 2).

Culex (Melanoconion) abominator Dyar & Knab: Coad, 1913 (2).

Cx. (Mel.) atratus Theobald: Mitchell, 1907 (1); Mattingly, 1976 (1, 2).

Cx. (Mel.) aureonotatus Duret & Barreto: Forattini, 2002 (1).

Cx. (Mel.) caudelli (Dyar & Knab): Chadee, 1986 (1, 2).
Cx. (Mel.) erraticus (Dyar & Knab): Mitchell, 1905 (1, as *atratus* Theobald); Howard *et al.*, 1913 (1); Mattingly, 1976 (1, 2).
Cx. (Mel.) iolambdis Dyar: Mattingly, 1976 (1, 2).
Cx. (Mel.) peccator Dyar & Knab: Mattingly, 1976 (1, 2).
Cx. (Mel.) pilosus (Dyar & Knab): Mattingly, 1976 (1, 2).
Cx. (Mel.) portesi Senevet & Abonnenc: Davies & Martinez, 1970 (2); Mattingly, 1976 (1, 2).
Cx. (Mel.) taeniopus Dyar & Knab: Mattingly, 1976 (1, 2, as *opisthopus* Komp & *taeniopus*).

Culex (Micraedes) antillummagnorum Dyar: Mattingly, 1975 (1, 2).

Culex (Microculex) gaudeator Dyar & Knab: Busck, 1908 (2); Mattingly, 1970 (2).
Cx. (Mcx.) jenningsi Dyar & Knab: Howard *et al.*, 1915 (2).

Culex (Neoculex) douglasi Dobrotworsky: Dobrotworsky, 1956 (1, 2), 1965 (2); Mattingly, 1970 (1, 2).
Cx. (Ncx.) fergusonii (Taylor): Dobrotworsky, 1956 (1, 2), 1965 (1, 2); Mattingly, 1970 (1, 2).
Cx. (Ncx.) territans Walker: Knab, 1904 (2); Mitchell, 1907 (1); Howard *et al.*, 1913 (1), 1915 (2).

Culex (Oculeomyia) bitaeniorhynchus Giles: Mochizuki, 1913 (2, as *karatsuensis* Mochizuki).
Cx. (Ocu.) sinensis Theobald: Mochizuki, 1913 (2, as *tripunctatus* Mochizuki).

Species of genus *Deinocerites* Theobald with the egg illustrated and/or described

Deinocerites cancer Theobald: Haeger & Phinizee, 1959 (2); Gentry *et al.*, 1970 (2); Adames, 1971 (2); Mattingly, 1973 (1, 2).
De. mathesoni Belkin & Hogue: Fisk, 1941 (2, as *spanius* (Dyar & Knab)); Adames, 1971 (2); Mattingly, 1973 (2).
De. pseudos Dyar & Knab: Galindo, 1967 (2); Adames, 1971 (2); Mattingly, 1973 (2).

Species of genus *Lutzia* Theobald with the egg illustrated and/or described

Lutzia (Lutzia) allostigma Howard, Dyar & Knab: Howard *et al.*, 1915 (2).
Lutzia (Metalutzia) fuscana (Wiedemann): Berlin & Pandian, 1973 (1, 2).

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