

List of anopheline species with published illustrations and/or descriptions of eggs (Diptera: Culicidae: Anophelinae)

John F. Reinert

Center for Medical, Agricultural and Veterinary Entomology (CMAVE), United States Department of Agriculture, Agricultural Research Service, 1600/1700 SW 23rd Drive, Gainesville, Florida 32608-1067, and collaborator Walter Reed Biosystematics Unit, National Museum of Natural History, Smithsonian Institution, Washington, D.C.
(e-mail: John.Reinert@ars.usda.gov)

Abstract

Species of the mosquito subfamily Anophelinae with published illustrations and/or morphological descriptions of the egg stage are listed with their literature citations. Species of the subfamily have the egg stage better known than those in most tribes of family Culicidae.

Key words: Diptera, Culicidae, Anophelinae, *Anopheles*, *Bironella*, *Brugella*, *Chagasia*, *Cellia*, *Kerteszia*, *Lophopodomyia*, *Nyssorhynchus*, *Stethomyia*, mosquito, eggs

Introduction

A listing of species with published illustrations and/or descriptions of eggs in the mosquito subfamily Anophelinae 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. Descriptive information on eggs sometimes is included in keys. The identification of anopheline species, subspecies, varieties, races, synonyms, etc. utilized in the cited literature is reported in the following list. Qu & Zhu (2008) provided recent information on several species that had been synonymized or resurrected from synonymy. The latest listing of currently valid species and generic-level taxa reported in the Mosquito Taxonomic Inventory (<http://mosquito-taxonomic-inventory.info>, accessed 30 June 2010) was utilized.

Species of subfamily Anophelinae have the egg stage better known (illustrated and/or described) than most taxa in subfamily Culicinae.

The following list denotes illustrations (by 1) and descriptions (by 2) following the literature citation after each species. Reinert (2005) provided a listing of species of tribe Aedini with published descriptions and/or illustrations of eggs. Abbreviations of anopheline genera and subgenera follow Reinert (2009).

Species of genus *Anopheles* Meigen with the egg illustrated and/or described

- Anopheles (Anopheles) aitkenii* James: Christophers, 1933 (2); d'Abbrera, 1944 (1, 2); Reid, 1965 (2), 1968 (2).
- An. (Ano.) albotaeniatus* (Theobald): Walch & Walch-Sorgdrager, 1934 (1, 2); Reid, 1968 (1, 2).
- An. (Ano.) algeriensis* Theobald: Sergent & Sergent, 1903 (1, 2); Edwards, 1921 (1), 1932 (2); Séguy, 1924 (1); la Face, 1930 (1); Martini, 1931 (1); Marshall, 1938 (1); Bates, 1941 (2); Saliternik, 1942 (1); Aitken, 1953 (2), 1954 (2); Kramář, 1958 (2); Guy, 1959 (1, 2); Mohrig, 1969 (1); Mattingly, 1969a (1); Skierska, 1971 (1).
- An. (Ano.) annandalei* Prashad: Christophers & Barraud, 1931 (2); Christophers, 1933 (2).
- An. (Ano.) apicimacula* Dyar & Knab: Kumm, 1941 (1, 2); Levi-Castillo, 1945b (1), 1949 (1); Cova-Garcia, 1946 (1); Lane, 1953 (1, 2); Vargas & Martinez Palacios, 1956 (2); Cova-Garcia & Sutil Oramas, 1977 (1); Rodriguez *et al.*, 1996 (1, 2).
- An. (Ano.) argyropus* (Swellengrebel): Reid, 1953 (1, 2), 1968 (1, 2); Harrison, 1972 (2); Harrison & Scanlon, 1975 (2); Rao, 1984 (2); Das *et al.*, 1990 (1); Lu, 1997 (1).
- An. (Ano.) asiaticus* Leicester: Reid, 1968 (1, 2).
- An. (Ano.) atroparvus* van Thiel: Missiroli *et al.*, 1933 (1, 2, as *maculipennis* Meigen variety *atroparvus*); Hackett, 1934 (1, 2, as *maculipennis* subspecies *atroparvus*), 1935 (2, as *maculipennis* subspecies *atroparvus*), 1937 (2, as *maculipennis* variety *fallax* Roubaud); de Buck & Swellengrebel, 1934 (1, 2, as *maculipennis* variety *atroparvus*); Hackett & Missiroli, 1935 (1, 2, as *maculipennis* variety *atroparvus*); Roubaud & Treillard, 1936 (1, as *maculipennis* varieties *atroparvus* & *cambournaci* Roubaud & Treillard); Marshall, 1938 (1, as *maculipennis* variety *atroparvus*); Bates & Hackett, 1939 (2); Herms, 1939 (1, as *maculipennis* variety *atroparvus*); la Face *in* Bates *et al.*, 1949 (1, 2); Buonomini & Mariani, 1953 (2, as *labranchiae* Falleroni race *atroparvus*); Weyer, 1954 (1); Aitken, 1954 (2); Rioux, 1958 (1, as *atroparvus*, *cambournaci* & *fallax* Roubaud); Kramář, 1958 (1, 2); Foote & Cook, 1959 (1, as *labranchiae* subspecies *atroparvus*); Herms & James, 1961 (1, as *labranchiae* subspecies *atroparvus*); Russell *et al.*, 1963 (1, as *labranchiae* subspecies *atroparvus*); Hinton, 1968 (1, 2, as *labranchiae* subspecies *atroparvus*), 1981 (1, as *labranchiae* subspecies *atroparvus*); Mohrig, 1969 (1, as *labranchiae* subspecies *atroparvus*); Coluzzi, 1970 (1, 2); Skierska, 1971 (1, as *labranchiae* subspecies *atroparvus*); Gutsevich *et al.*, 1974 (1, 2, as *maculipennis* subspecies *atroparvus*); White, 1978 (2); Ramsdale & Snow, 1994 (1, 2); Stojanovich & Scott, 1995a (1, 2); Becker *et al.*, 2003 (1, 2).
- An. (Ano.) atropos* Dyar & Knab: Beyer, 1923 (1, 2); Vargas, 1950 (2); Buonomini & Mariani, 1953 (2); Linley, 1992 (1, 2).
- An. (Ano.) aztecus* Hoffmann: Hoffmann, 1935 (1, 2, as *maculipennis* Meigen subspecies *aztecus*); Vargas, 1941 (1, 2), 1950 (2); Aitken, 1945 (2, as *maculipennis* subspecies *aztecus*); Vargas & Martinez Palacios, 1950 (1), 1956 (1, 2); Buonomini & Mariani, 1953 (2, as *occidentalis* Dyar & Knab variety *aztecus*).
- An. (Ano.) baezai* Gater: Reid, 1968 (1, 2).
- An. (Ano.) bancroftii* Giles: Lee & Woodhill, 1944 (1, 2, as *bancroftii* subspecies *bancroftii*).
- An. (Ano.) barberi* Coquillett: Howard *et al.*, 1917 (2); Vargas, 1942b (1, 2); Vargas & Martinez Palacios, 1956 (2); Barr, 1958 (2).
- An. (Ano.) barbirostris* van der Wulp: Stephens & Christophers, 1902b (2); Christophers & Barraud, 1931 (1, 2); Christophers, 1933 (2); Walch & Walch-Sorgdrager, 1934 (2, as

- barbirostris typicus*); Wu, 1936 (1, 2); Urbino, 1936 (1, 2, as *barbirostris* type 1 & variety); Mendoza, 1940 (2); d'Abbrera, 1944 (1, 2); Reid, 1962 (1, 2), 1968 (1, 2); Rao, 1984 (2); Lu, 1997 (1).
- An. (Ano.) barbumbrosus* Strickland & Chowdhury: Lu, 1997 (1).
- An. (Ano.) barianensis* James: Christophers, 1916 (1, 2), 1933 (2); Christophers & Barraud, 1931 (2).
- An. (Ano.) beklemishevi* Stegnii & Kabanova: Stegnii & Kabanova, 1976 (1, 2), 1978 (1, 2); White, 1978 (2); Korvenkontio *et al.*, 1979 (1, 2); Stojanovich & Scott, 1995a (1, 2); Dahl, 1997 (1); Gornostaeva & Danilov, 1999 (1, 2); Becker *et al.*, 2003 (1, 2).
- An. (Ano.) belenrae* Rueda: Rueda *et al.*, 2009 (1, 2).
- An. (Ano.) bengalensis* Puri: Reid, 1965 (1, 2), 1968 (1, 2).
- An. (Ano.) bradleyi* King: Vargas, 1941 (2, as *crucians* Weidemann variety *bradleyi*).
- An. (Ano.) brevipalpis* Roper: Strickland, 1915 (1, 2); Reid, 1968 (1, 2).
- An. (Ano.) campestris* Reid: Reid, 1962 (2), 1968 (2); Rao, 1984 (2).
- An. (Ano.) claviger* (Meigen): la Face, 1926 (1, 2); Marshall, 1938 (1); del Vecchio, 1939 (1, 2, as *claviger* variety *missiroli* del Vecchio); Bates, 1941 (2); Saliternik, 1942 (1); Aitken, 1953 (2), 1954 (2); Senevet & Andarelli, 1955a (1, 2, as *claviger* variety *missiroli*); Kramář, 1958 (1, 2); Guy, 1959 (1, 2, as *claviger* subspecies *missiroli*); Mohrig, 1969 (1); Dahl, 1997 (1); Gornostaeva & Danilov, 1999 (1, 2).
- An. (Ano.) collessi* Reid: Reid, 1963 (1, 2), 1968 (1, 2).
- An. (Ano.) concolor* Edwards: Vincke & Leleup, 1949 (1); Mattingly, 1971 (1).
- An. (Ano.) coustani* Laveran: de Meillon, 1936b (1, 2), 1947 (1, 2), 1949 (2); Evans, 1938 (1, 2); Saliternik, 1942 (1); Doucet, 1951 (1, 2); Guy, 1959 (1, 2); Gillies & de Meillon, 1968 (1, 2); Coetzee, 1994b (2).
- An. (Ano.) crawfordi* Reid: Reid, 1953 (1, 2), 1968 (1, 2); Harrison, 1972 (2); Harrison & Scanlon, 1975 (2); Lu, 1997 (1).
- An. (Ano.) crucians* Wiedemann *s.l.*: Mitchell, 1907 (1, 2); Howard *et al.*, 1913 (1), 1917 (2); Ludlow, 1914 (1); Matheson, 1929 (1), 1944 (1); Bellamy & Repass, 1950 (1, 2).
- An. (Ano.) daciae* Linton, Nicolescu & Harbach: Nicolescu *et al.*, 2004 (1, 2).
- An. (Ano.) diluvialis* Reinert: Linley *et al.*, 1993b (1, 2, as *quadrimaculatus* Complex, species C1); Reinert *et al.*, 1997 (1, 2); Linley *et al.*, 1998 (1).
- An. (Ano.) donaldi* Reid: Reid, 1962 (1, 2), 1968 (1, 2).
- An. (Ano.) earlei* Vargas: Rozeboom, 1952 (1, 2); Buonomini & Mariani, 1953 (2); Frohne, 1956 (2?, as *earlei* ?); Barr, 1958 (1, 2).
- An. (Ano.) eiseni* Coquillett: Vargas, 1942a (1, 2); Correa, 1942 (1, 2), 1944 (2); Causey *et al.*, 1944 (1, 2); Levi-Castillo, 1945b (1), 1949 (1); Cova-Garcia, 1946 (1); Freeborn, 1949 (2); Lane, 1953 (2); Vargas & Martinez Palacios, 1956 (2); Cova-Garcia & Sutil Oramas, 1977 (1).
- An. (Ano.) engarensis* Kanda & Oguma: Kanda & Oguma, 1978 (2).
- An. (Ano.) fluminensis* Root: Causey *et al.*, 1944 (1, 2); Levi-Castillo, 1949 (1); Freeborn, 1949 (2); Lane, 1953 (1, 2); Lounibos *et al.*, 1997b (1, 2).
- An. (Ano.) franciscanus* McCracken: Vargas, 1941 (1, 2, as *pseudopunctipennis* Theobald varieties *franciscanus* & *boydi* Vargas); Rozeboom, 1942 (1, as *pseudopunctipennis* subspecies *franciscanus* & variety *boydi*); Aitken, 1945 (1, 2, as *pseudopunctipennis* subspecies *franciscanus* & variety *boydi*); Osorno-Mesa & Muñoz-Sarmiento, 1948 (1, 2, as *pseudopunctipennis* varieties *bifoliata* Osorno-Mesa & Muñoz-Sarmiento & *willardi*

- Vargas); Mann, 1950 (1, 2, as *pseudopunctipennis* subspecies *franciscanus*, *boydi* & *willardi*); Vargas & Martinez Palacios, 1950 (1, as *pseudopunctipennis* subspecies *willardi*), 1956 (1, 2, as *pseudopunctipennis* subspecies *willardi*); Herms & James, 1961 (1, as *pseudopunctipennis* subspecies *franciscanus*); Forattini, 1962 (1, as *pseudopunctipennis* subspecies *boydi*, *franciscanus* & *willardi*); Hinton, 1968 (1, 2, as *pseudopunctipennis* variety *willardi*); James & Harwood, 1969 (1, as *pseudopunctipennis* subspecies *franciscanus*).
- Ae. (Ano.) franciscoi* Reid: Reid, 1962 (1, 2).
- An. (Ano.) freeborni* Aitken: Aitken, 1939 (2, as *maculipennis* Meigen subspecies *freeborni*), 1945, (1, 2, as *maculipennis* subspecies *freeborni*); Vargas, 1941 (1, 2), 1950 (2); Buonomini & Mariani, 1953 (2, as *occidentalis* Dyar & Knab variety *freeborni*); Vargas & Martinez Palacios, 1956 (2); Herms & James, 1961 (1, 2); James & Harwood, 1969 (1, 2); Stoddard *et al.*, 1988 (2); Barr & Guptavanij, 1989 (2).
- An. (Ano.) freyi* Meng: Lu, 1997 (1)
- An. (Ano.) gabaldoni* Vargas: Vargas & Martinez Palacios, 1946 (1, 2), 1956 (2).
- An. (Ano.) georgianus* King: Bellamy & Repass, 1950 (1, 2).
- An. (Ano.) gigas gigas* Giles: Narayandas, 1954 (2).
- An. (Ano.) gigas refutans* Alcock: d'Abrera, 1944 (1, 2, as *gigas* Giles variety *refutans*); Narayandas, 1954 (2, as *gigas* form *refutans*); Reid, 1968 (1, 2, as *gigas* variety *refutans*).
- An. (Ano.) grabhamii* Theobald: Theobald, 1903 (1, 2).
- An. (Ano.) hailarensis* Xu & Luo: Xu & Luo, 1998 (1, 2).
- An. (Ano.) hectoris* Giaquinto-Mira: Vargas, 1941 (1, 2); Vargas & Martinez Palacios, 1942 (1, 2), 1946 (1), 1950 (1, 2), 1956 (2); Lane, 1953 (2).
- An. (Ano.) heiheensis* Ma: Ma, 1981 (2).
- An. (Ano.) hermsi* Barr & Guptavanij: Barr & Guptavanij, 1989 (2).
- An. (Ano.) hodgkini* Reid: Reid, 1962 (1, 2), 1968 (1, 2).
- An. (Ano.) hyrcanus* (Pallas): Edwards, 1921 (1); Martini, 1931 (1); Yamada, 1936 (2); Bates, 1941 (2); Saliternik, 1942 (1); d'Abrera, 1944 (1, 2); Aitken, 1954 (2); Kramář, 1958 (2); Guy, 1959 (1, 2); Su & Feng, 1975 (1); Lu, 1997 (1).
- An. (Ano.) implexus* (Theobald): Gibbins, 1933 (1, 2); Evans, 1938 (1, 2); de Meillon, 1947 (1, 2), 1949 (2); Gillies & de Meillon, 1968 (1, 2).
- An. (Ano.) intermedius* (Peryassú): da Costa Lima, 1929 (1); Causey *et al.*, 1944 (1, 2); Levi-Castillo, 1949 (1); Freeborn, 1949 (2); Lane, 1953 (1, 2); Floch & Abonnenc, 1951 (1, 2); Forattini *et al.*, 1997a (1, 2).
- An. (Ano.) interruptus* Puri: Puri, 1929 (1, 2, as *annandalei* Prashad variety *interruptus*); Christophers, 1933 (2, as *annandalei* variety *interruptus*); d'Abrera, 1944 (2, as *annandalei* variety *interruptus*); Reid, 1968 (1, 2).
- An. (Ano.) inundatus* Reinert: Linley *et al.*, 1993b (1, 2, as *quadrimaculatus* Complex species C2); Reinert *et al.*, 1997 (1, 2); Linley *et al.*, 1998 (1).
- An. (Ano.) kleini* Rueda: Rueda *et al.*, 2009 (1, 2).
- An. (Ano.) koreicus* Yamada & Watanabe: Yamada, 1936 (1, 2, as *koreicus* & *edwardsi* Yamada), 1937 (2, as *koreicus* & *edwardsi*); Otsuru & Miyagawa, 1950 (2, as *koreicus* & *edwardsi*); Otsuru & Ohmori, 1960 (2); Rueda *et al.*, 2009 (1, 2).
- An. (Ano.) kweiyangensis* Yao & Wu: Yao & Wu, 1944 (1); Xu & Feng, 1975 (1); Kang *et al.*, 1984 (2); Lu, 1997 (1).

- An. (Ano.) labranchiae* Falleroni: Falleroni, 1926 (1, as *claviger* (Meigen) variety *labranchiae*); Hackett *et al.*, 1932 (1, 2, as *maculipennis* Meigen race *labranchiae*); Missiroli *et al.*, 1933 (1, as *maculipennis* variety *labranchiae*); Hackett, 1934 (1, 2, as *maculipennis* subspecies *labranchiae*), 1937 (2, as *labranchiae* & *maculipennis* varieties *pergusae* Missiroli & *labranchiae*); de Buck & Swellengrebel, 1934 (1, 2, as *maculipennis* variety *labranchiae*); Marshall, 1935 (1, 2, as *maculipennis* variety *labranchiae*); Hackett & Missiroli, 1935 (1, 2, as *maculipennis* variety *labranchiae*); Bates & Hackett, 1939 (2); Herms, 1939 (1, as *maculipennis* variety *labranchiae*); Buonomini & Mariani, 1946 (2), 1953 (2, as *labranchiae* & variety *sicaulti* Roubaud); la Face *in* Bates *et al.*, 1949 (1, 2); Vargas, 1950 (2); Aitken, 1953 (2, as *labranchiae* subspecies *labranchiae*), 1954 (2); Weyer, 1954 (1); Kramář, 1958 (1, 2); Guy, 1959 (1, 2, as *maculipennis* subspecies *labranchiae* & form *sicaulti*); Foote & Cook, 1959 (1, as *labranchiae* subspecies *labranchiae* & *maculipennis* subspecies *sicaulti*); Herms & James, 1961 (1); Russell *et al.*, 1963 (1, as *labranchiae* subspecies *labranchiae*); Coluzzi, 1970 (1, 2); Gutsevich *et al.*, 1974 (1, 2, as *maculipennis* subspecies *labranchiae*); Becker *et al.*, 2003 (1, 2).
- An. (Ano.) lesteri* Baisas & Hu: Baisas & Hu, 1936 (1, 2, as *hyrcanus* (Pallas) variety *lesteri*); Miyazaki, 1951 (1, 2); Reid, 1953 (1, 2); Ohmori, 1957 (1); Otsuru & Ohmori, 1960 (1, 2); Harrison, 1972 (2, as *lesteri* subspecies *lesteri*); Xu & Feng, 1975 (1, as *kiangsuensis* Xu & Feng & *lesteri* subspecies *anthropophagus* Xu & Feng); Harrison & Scanlon, 1975 (2, as *lesteri* subspecies *lesteri*); Otsuru *et al.*, 1976 (2); Xu *et al.*, 1981 (1, 2, as *lesteri* subspecies *anthropophagus*); Ma, 1981 (1, 2, as *dazhais* Ma); Lu, 1997 (1, as *anthropophagus*), 1999 (1, as *anthropophagus*); Rueda *et al.*, 2005 (1, 2).
- An. (Ano.) letifer* Sandosham: Reid, 1968 (1, 2).
- An. (Ano.) liangshanensis* Kang, Tan, Cao, Cheng, Yang & Huang: Kang *et al.*, 1984 (1, 2); Dong & Wang, 1985 (1, 2, as *kunmingensis* Dong & Wang); Lu, 1997 (1, as *liangshanensis* & *kunmingensis*).
- An. (Ano.) lindesayi japonicus* S. Yamada: Yamada, 1937 (2); Otsuru & Miyagawa, 1950 (2, as *lindesayi* Giles variety *japonicus*); Tajima, 1952 (1, as *lindesayi* variety *japonicus*); Otsuru & Ohmori, 1960 (2); Rueda *et al.*, 2009 (1, 2).
- An. (Ano.) lindesayi lindesayi* Giles: Christophers & Barraud, 1931 (1, 2, as *lindesayi*); Christophers, 1933 (1, 2); Wu, 1936 (1, 2); Reid, 1968 (1, 2).
- An. (Ano.) maculipennis* Meigen: Nuttall & Shipley, 1901 (1); Theobald, 1901 (1); Howard, 1904 (1); Blanchard, 1905 (1); Mitchell, 1907 (1, 2); Ludlow, 1914 (1); MacGregor, 1921 (1, 2); Martini, 1921 (1), 1931 (1); Edwards, 1921 (1); Séguy, 1924 (1); la Face, 1931 (2); Herms & Frost, 1932 (1, 2); de Buck *et al.*, 1932 (1, 2); Missiroli *et al.*, 1933 (1, 2, as *maculipennis* subspecies *maculipennis*); Hackett, 1934 (1, 2, as *maculipennis typicus* Hackett & Missiroli), 1935 (2, as *maculipennis typicus*); de Buck & Swellengrebel, 1934 (1, 2, as *maculipennis* variety *typicus*); Hackett & Missiroli, 1935 (1, 2, as *maculipennis* type); Hoffmann, 1935 (1, 2); Dampf, 1936 (1); Wu, 1936 (1, 2); Rice & Barber, 1937 (2, as *maculipennis* variety *typicus*); Marshall, 1938 (1, as *maculipennis typicus*); Bates & Hackett, 1939 (2, as *maculipennis typicus*); Herms, 1939 (1, as *maculipennis* variety *maculipennis*); Shannon & Hadjinicalao, 1941 (2, as *maculipennis* variety *typicus*); Bates, 1941 (2); Peus, 1942 (1); Buonomini & Mariani, 1946 (2), 1953 (2); Leeson & Buxton, 1949 (1); la Face *in* Bates *et al.*, 1949 (1, 2, as *maculipennis typicus*); Vargas, 1950 (2); Aitken, 1954 (2); Foote, 1954 (1, 2, as *maculipennis* subspecies *maculipennis*); Kramář, 1958 (1, 2); Foote & Cook, 1959 (1, as *maculipennis* subspecies *maculipennis*);

- Herms & James, 1961 (1, as *maculipennis* subspecies *maculipennis*); Russell *et al.*, 1963 (1, as *maculipennis* subspecies *maculipennis*); Mohrig, 1969 (1); James & Harwood, 1969 (1); Mattingly, 1969a (1), 1969b (1), 1971 (1); Gutsevich *et al.*, 1974 (1, 2, as *maculipennis* subspecies *maculipennis*); Stegnii & Kabanova, 1978 (1, 2); White, 1978 (2); Stoddard *et al.*, 1988 (2, as *maculipennis* complex species); Ramsdale & Snow, 1994 (1, 2); Stojanovich & Scott, 1995a (1, 2), 1995b (1, 2); Dahl, 1997 (1); Gornostaeva & Danilov, 1999 (1, 2); Linton *et al.*, 2003 (2); Becker *et al.*, 2003 (1, 2).
- An. (Ano.) maculipes* (Theobald): Theobald, 1910 (1); Causey *et al.*, 1944 (1, 2); Levi-Castillo, 1949 (1); Freeborn, 1949 (2); Lane, 1953 (1, 2).
- An. (Ano.) manalangi* Mendoza: Urbino, 1936 (1, 2, as *barbistrotris* van der Wulp type 2); Mendoza, 1940 (2); Reid, 1962 (1, 2); Baisas, 1974 (1, 2).
- An. (Ano.) marteri* Senevet & Prunelle: Hadjinicolaou, 1938 (1, 2); Bates, 1941 (2); Aitken, 1953 (2), 1954 (2); Senevet & Andarelli, 1955b (2); Guy, 1959 (1, 2).
- An. (Ano.) martinius* Shingarev: White, 1978 (2).
- An. (Ano.) mottogrossensis* Lutz & Neiva: Causey *et al.*, 1944 (1, 2); Cova-Garcia, 1946 (1); Levi-Castillo, 1949 (1); Freeborn, 1949 (2); Lane, 1953 (1, 2); Cova-Garcia & Sutil Oramas, 1977 (1); Linley & Miltstrey, 1995 (1, 2).
- An. (Ano.) maverlius* Reinert: Linley *et al.*, 1993b (1, 2, as *quadrimaculatus* Complex species D); Reinert *et al.*, 1997 (1, 2); Linley *et al.*, 1998 (1).
- An. (Ano.) mediopunctatus* Lutz: Bonne, 1923 (1, 2); Causey *et al.*, 1944 (1, 2); Levi-Castillo, 1945b (1), 1949 (1); Cova-Garcia, 1946 (1); Freeborn, 1949 (2); Floch & Abonnenc, 1951 (2); Lane, 1953 (1, 2); Forattini, 1962 (1); Cova-Garcia & Sutil Oramas, 1977 (1).
- An. (Ano.) melanoon* Hackett: Hackett, 1934 (1, 2, as *maculipennis* Meigen subspecies *melanoon*), 1935 (2, as *maculipennis* varieties *melanoon* & *subalpinus* Hackett & Lewis), 1937 (2, as *maculipennis* varieties *melanoon* & *subalpinus*); Hackett & Lewis, 1935 (1, 2, as *maculipennis* variety *melanoon* & *maculipennis* variety *subalpinus* Hackett & Lewis); Hackett & Missiroli, 1935 (1, 2, as *maculipennis* variety *melanoon*); Marshall, 1938 (1, as *maculipennis* variety *melanoon*); Herms, 1939 (1, as *maculipennis* variety *melanoon*); Bates & Hackett, 1939 (2, as *melanoon* & *subalpinus*); Shannon & Hadjinalao, 1941 (2, as *maculipennis* variety *subalpinus*); Bates, 1941 (2, as *subalpinus*); la Face *in* Bates *et al.*, 1949 (1, 2, as *melanoon* & subspecies *subalpinus*); Vargas, 1950 (2, as *melanoon* & *subalpinus*); Buonomini & Mariani, 1953 (2, as *maculipennis* varieties *melanoon* & *subalpinus*); Aitken, 1953 (2, as *melanoon* subspecies *melanoon*), 1954 (2); Weyer, 1954 (1, as *melanoon* & *subalpinus*); Foote & Cook, 1959 (1, as *melanoon* subspecies *melanoon* & *subalpinus*); Herms & James, 1961 (1, as *maculipennis* variety *melanoon*); Gutsevich *et al.*, 1974 (1, 2, as *maculipennis* subspecies *melanoon*); White, 1978 (2); Becker *et al.*, 2003 (1, 2, as *melanoon* & *subalpinus*).
- An. (Ano.) messeae* Falleroni: Falleroni, 1926 (1, as *claviger* (Meigen) variety *messeae*); Hackett *et al.*, 1932 (1, as *maculipennis* Meigen race *messeae*); Missiroli *et al.*, 1933 (1, 2, as *maculipennis* variety *messeae*); de Buck & Swellengrebel, 1934 (1, 2, as *maculipennis* variety *messeae*); Hackett, 1934 (1, 2, as *maculipennis* variety *messeae*); Hackett & Lewis, 1935 (1, 2, as *maculipennis* variety *messeae*); Hackett & Missiroli, 1935 (1, 2, as *maculipennis* variety *messeae*); Rice & Barber, 1937 (2, as *maculipennis* variety *messeae*); Marshall, 1938 (1, as *maculipennis* variety *messeae*); Herms, 1939 (1, as *maculipennis* variety *messeae*); Bates & Hackett, 1939 (2); Bates, 1941 (2); la Face *in* Bates *et al.*, 1949 (1, 2); Vargas, 1950 (2); Buonomini & Mariani, 1953 (2, as

- maculipennis* race *messeae*); Weyer, 1954 (1); Aitken, 1954 (2); Kramář, 1958 (1, 2); Foote & Cook, 1959 (1); Herms & James, 1961 (1, as *maculipennis* subspecies *messeae*); Mohrig, 1969 (1, as *messeae* subspecies *messeae*); Ulmanen & Brummer-Korvenkontie, 1971 (1, 2, as *messeae* subspecies *messeae*); Skierska, 1971 (1, as *maculipennis* subspecies *messeae*); Gutsevich *et al.*, 1974 (1, 2, as *maculipennis* subspecies *messeae*); Dahl, 1977 (1, 2), 1997 (1); White, 1978 (2); Korvenkontio *et al.*, 1979 (1, 2); Ramsdale & Snow, 1994 (1, 2); Russell *et al.*, 1963 (1, as *maculipennis* subspecies *messeae*); Stojanovich & Scott, 1995a (1, 2), 1995b (1, 2); Lu, 1997 (1); Gornostaeva & Danilov, 1999 (1, 2); Becker *et al.*, 2003 (1, 2); Nicolescu *et al.*, 2004 (1, 2).
- An. (Ano.) minor* da Costa Lima: Causey *et al.*, 1944 (1, 2); Levi-Castillo, 1949 (1); Freeborn, 1949 (2); Lane, 1953 (1, 2).
- An. (Ano.) montanus* Stanton & Wacker: Reid, 1968 (1, 2).
- An. (Ano.) namibiensis* Coetzee: Coetzee, 1984 (2).
- An. (Ano.) neomaculipalpus* Curry: Kumm, 1941 (1, 2); Cova-Garcia, 1946 (1); Levi-Castillo, 1949 (1); Freeborn, 1949 (2); Lane, 1953 (1, 2); Vargas & Martinez Palacios, 1956 (2); Cova-Garcia & Sutil Oramas, 1977 (1).
- An. (Ano.) nigerrimus* Giles: Stephens & Christophers, 1902a (1, 2, as *hyrcanus* (Pallas) variety *nigerrimus*); Christophers & Barraud, 1931 (1, 2, as *hyrcanus* variety *nigerrimus* & *maculipalpis* variety *indiensis* Theobald); Christophers, 1933 (1, 2, as *hyrcanus* variety *nigerrimus*); Walch & Walch-Sorgdrager, 1934 (1, 2, as *hyrcanus typicus* variety *nigerrima*); Baisas & Hu, 1936 (1, 2, as *hyrcanus* variety *nigerrimus*); Urbino, 1936 (1, 2, as *hyrcanus* variety *nigerrimus*); Wu, 1936 (1, 2, as *hyrcanus* variety *nigerrimus*); Yamada, 1937 (2, as *hyrcanus* variety *nigerrimus*); d'Abbrera, 1944 (1, 2, as *hyrcanus* variety *nigerrimus*); Leeson & Buxton, 1949 (1, as *hyrcanus* variety *nigerrimus*); Reid, 1953 (1, 2, as *nigerrimus* & *indiensis*), 1968 (1, 2, as *nigerrimus* & *indiensis*); Mattingly, 1969a (1); Harrison, 1972 (2); Harrison & Scanlon, 1975 (2); Rao, 1984 (2); Linley *et al.*, 1995 (1, 2); Lu, 1997 (1).
- An. (Ano.) nitidus* Harrison, Scanlon & Reid: Harrison & Scanlon, 1975 (2); Rao, 1984 (2); Lu, 1997 (1).
- An. (Ano.) obscurus* (Grünberg): Evans, 1931 (1, 2), 1938 (1, 2); de Meillon, 1947 (1, 2), 1949 (2); Doucet, 1951 (1, 2); Gillies & de Meillon, 1968 (1, 2).
- An. (Ano.) occidentalis* Dyar & Knab: Dampf, 1936 (1); Aitken, 1945 (2, as *maculipennis* Meigen subspecies *occidentalis*); Vargas, 1950 (2); Buonomini & Mariani, 1953 (2); Stoddard *et al.*, 1988 (2); Barr & Guptavanij, 1989 (2).
- An. (Ano.) paludis* Theobald: Gillies & de Meillon, 1968 (2).
- An. (Ano.) paraliae* Sandosham: Reid, 1968 (1, 2); Linley *et al.*, 1995 (1, 2).
- An. (Ano.) parapunctipennis guatemalensis* de León: Vargas, 1941 (1, 2); Freeborn, 1949 (2).
- An. (Ano.) parapunctipennis parapunctipennis* Martini: Vargas & Martinez Palacios, 1950 (1), 1956 (1, 2).
- An. (Ano.) paraliae* Sandosham: Reid, 1968 (1, 2); Harrison, 1972 (2, as *lesteri* Baisas & Hu subspecies *paraliae*); Harrison & Scanlon, 1975 (2, as *lesteri* subspecies *paraliae*).
- An. (Ano.) peditaeniatus* (Leicester): Reid, 1953 (1, 2), 1968 (1, 2); Harrison, 1972 (2); Baisas, 1974 (1, 2); Xu & Feng, 1975 (1); Harrison & Scanlon, 1975 (2); Rao, 1984 (2); Das *et al.*, 1990 (1); Linley *et al.*, 1995 (1, 2).
- An. (Ano.) perplexens* Ludlow: Bellamy, 1956 (1, 2); Linley & Kaiser, 1994 (1, 2).
- An. (Ano.) persiensis* Linton, Sedaghat & Harbach: Sedaghat *et al.*, 2003a (2), 2009 (1, 2).

- An. (Ano.) peryassui* Dyar & Knab: Causey *et al.*, 1944 (1, 2); Cova-Garcia, 1946 (1); Levi-Castillo, 1949 (1); Freeborn, 1949 (2); Lane, 1953 (1, 2, as *peryassui* & *lutzi* Cruz); Cova-Garcia & Sutil Oramas, 1977 (1); Linley & Lounibos, 1994 (1, 2); Linley *et al.*, 1998 (1).
- An. (Ano.) petragrani* del Vecchio: del Vecchio, 1939 (1, 2, as *claviger* (Meigen) variety *petragrani*); Senevet & Andarelli, 1955a (1, 2, as *claviger* variety *petragrani*); Guy, 1959 (1, 2, as *claviger* subspecies *petragrani*).
- An. (Ano.) plumbeus* Stephens: Eysell, 1912 (1, 2, as *nigripes* Staeger); Edwards, 1921 (1); Martini, 1921 (1, as *nigripes*), 1930 (1, as *nigripes*); MacGregor, 1921 (1, 2); Ségué, 1924 (1), 1925 (1); Marshall, 1938 (1); Bates, 1941 (2); Aitken, 1953 (2), 1954 (2); Foote, 1954 (1, 2); Senevet & Andarelli, 1955b (2); Kramář, 1958 (1, 2); Guy, 1959 (1, 2); Foote & Cook, 1959 (1); Mattingly, 1969a (1), 1971 (1); Skierska, 1971 (1); Dahl, 1997 (1).
- An. (Ano.) pollicaris* Reid: Reid, 1962 (1, 2), 1968 (1, 2).
- An. (Ano.) pseudobarbirostris* Ludlow: Urbino, 1936 (1, 2); Baisas, 1974 (1).
- An. (Ano.) pseudopictus* Grassi: Rioux, 1958 (1, as *hyrcanus* subspecies *pseudopictus*);
- An. (Ano.) pseudopunctipennis* Theobald: Herms & Frost, 1932 (1, 2); Rozeboom, 1937b (1, 2), 1942 (1, 2, as *pseudopunctipennis typicus*); del Ponte, 1939 (1); Herms, 1939 (1); Vargas, 1941 (1, 2, as *pseudopunctipennis* variety *typicus*); Kumm, 1941 (1, 2); Levi-Castillo, 1949 (1, as *pseudopunctipennis* variety *typicus*); Aitken, 1945 (1, 2); Cova-Garcia, 1946 (1); Osorno-Mesa & Muñoz-Sarmiento, 1948 (1, 2, as *pseudopunctipennis* varieties *bifoliata* Osorno-Mesa & Muñoz-Sarmiento & *typicus*); Hinton, 1981 (1); Cova-Garcia & Sutil Oramas, 1977 (1).
- An. (Ano.) pseudopunctipennis levicastilloi* Levi-Castillo: Levi-Castillo, 1944 (1, 2, as *pseudopunctipennis* Theobald variety *levicastilloi*), 1945a (1, 2, as *pseudopunctipennis* variety *levi-castilloi* [sic]), 1945b (1, as *pseudopunctipennis* variety *levicastilloi*), 1949 (1, as *pseudopunctipennis* varieties *typicus* & *levicastilloi*).
- An. (Ano.) pseudopunctipennis neghmei* Mann: Mann, 1950 (1, 2, as *pseudopunctipennis* Theobald subspecies *neghmei*); Forattini, 1962 (1, as *pseudopunctipennis* subspecies *neghmei*).
- An. (Ano.) pseudopunctipennis noei* Mann: Mann, 1950 (1, 2, as *pseudopunctipennis* Theobald subspecies *noei*); Forattini, 1962 (1, as *pseudopunctipennis* subspecies *noei*).
- An. (Ano.) pseudopunctipennis patersoni* Alvarado & Heredia: Alvarado & Heredia, 1947 (1, 2, as *pseudopunctipennis* Theobald variety *patersoni*); Mann, 1950 (1, 2, as *pseudopunctipennis* subspecies *patersoni*); Forattini, 1962 (1, as *pseudopunctipennis* subspecies *patersoni*).
- An. (Ano.) pseudopunctipennis pseudopunctipennis* Theobald: Levi-Castillo, 1944 (1, 2, as *pseudopunctipennis* Theobald variety *pseudopunctipennis*); Mann, 1950 (1, 2, as *pseudopunctipennis* subspecies *pseudopunctipennis*); Vargas & Palacios, 1950 (1, as *pseudopunctipennis* subspecies *pseudopunctipennis*), 1956 (1, 2, as *pseudopunctipennis* subspecies *pseudopunctipennis*); Lane, 1953 (1, 2); Forattini, 1962 (1, as *pseudopunctipennis* subspecies *pseudopunctipennis*).
- An. (Ano.) pseudopunctipennis rivadeneirai* Levi-Castillo: Levi-Castillo, 1945b (1, 2, as *pseudopunctipennis* Theobald variety *rivadeneirai*), 1949 (1, as *pseudopunctipennis* variety *rivadeneirai*).

- An. (Ano.) pseudosinensis* Baisas: Baisas & Hu, 1936 (1, 2, as *hyrcanus* (Pallas) variety *pseudosinensis*); Yamada, 1937 (2, as *hyrcanus* variety *pseudosinensis*); Harrison, 1972 (2); Harrison & Scanlon, 1975 (2).
- An. (Ano.) pullus* M. Yamada: Yamada, 1937 (1, 2); Rueda *et al.*, 2009 (1, 2).
- An. (Ano.) punctimacula* Dyar & Knab: Kumm, 1941 (1, 2, as *punctimacula* types A, B & intermediate); Correa, 1942 (1); Levi-Castillo, 1945b (1, as *punctimacula* types A & B), 1949 (1); Cova-Garcia, 1946 (1); Freeborn, 1949 (2); Lane, 1953 (1, 2); Vargas & Martinez Palacios, 1956 (2); Cova-Garcia & Sutil Oramas, 1977 (1); Rodriguez *et al.*, 2002 (1, 2).
- An. (Ano.) punctipennis* (Say): Mitchell, 1907 (1, 2); Howard *et al.*, 1913 (1), 1917 (2); Smith, 1914 (1, 2); Matheson, 1929 (1), 1944 (2); Herms & Frost, 1932 (1, 2); Herms, 1939 (1); Lawlor, 1940 (2); Vargas, 1941 (2); Aitken, 1945 (1, 2); Newkirk, 1955 (2); Bellamy, 1956 (1, 2); Vargas & Martinez Palacios, 1956 (2); Barr, 1958 (1, 2); Herms & James, 1961 (1, 2); Fritz & Washino, 1992 (1); Linley & Kaiser, 1994 (1, 2).
- An. (Ano.) pursati* Laveran: Reid, 1963 (1, 2), 1968 (1, 2); Harrison, 1972 (2); Harrison & Scanlon, 1975 (2); Dang *et al.*, 2007 (2).
- An. (Ano.) quadrimaculatus* Say *s.s.*: Linley *et al.*, 1993b (1, 2, as *quadrimaculatus* Complex species A); Reinert *et al.*, 1997 (1, 2); Linley *et al.*, 1998 (1).
- An. (Ano.) quadrimaculatus* Say *s.l.*: Howard, 1900a (1, 2), 1900b (1); Howard *et al.*, 1913 (1), 1917 (2); Root, 1929 (1); Matheson, 1929 (1), 1944 (2); King *et al.*, 1939 (1), 1944 (1); Vargas, 1941 (2), 1950 (2); Ross & Roberts, 1943 (1); Ross, 1947 (2); Buonomini & Mariani, 1953 (2); Newkirk, 1955 (2); Vargas & Martinez Palacios, 1956 (2); Barr, 1958 (1, 2); Hinton, 1968 (1, 2, as *quadrimaculatus s.l.*), 1981 (1).
- An. (Ano.) roperi* Reid: Reid, 1968 (1, 2).
- An. (Ano.) sacharovi* Favre: Edwards, 1921 (1, as *elutus* Edwards); Theodor, 1925 (1, 2, as *elutus*); Falleroni, 1926 (1, as *elutus*); Martini, 1930 (1, as *sacharovi*, *elutus* & *elutus* variety *elutior* Martini); Hackett *et al.*, 1932 (1, as *maculipennis* Meigen subspecies *elutus*); Missiroli *et al.*, 1933 (1, as *maculipennis* variety *elutus*); Hackett, 1934 (1, 2, as *maculipennis* subspecies *elutus*); Hackett & Missiroli, 1935 (1, 2, as *maculipennis* variety *elutus*); Wu, 1936 (1, 2); Marshall, 1938 (1, as *maculipennis* variety *elutus*); Herms, 1939 (1, as *maculipennis* variety *elutus*); Bates & Hackett, 1939 (2); Bates, 1941 (2); Shannon & Hadjinalao, 1941 (2); Peus, 1942 (1); Saliternik, 1942 (1, 2, as *elutus*); Buonomini & Mariani, 1946 (2), 1953 (2); la Face *in* Bates *et al.*, 1949 (1, 2); Vargas, 1950 (2); Aitken, 1954 (2); Foote, 1954 (1, 2); Weyer, 1954 (1); Kramář, 1958 (1, 2); Guy, 1959 (1, 2, as *maculipennis* subspecies *sacharovi*); Foote & Cook, 1959 (1); Herms & James, 1961 (1); Russell *et al.*, 1963 (1); Gutsevich *et al.*, 1974 (1, 2, as *maculipennis* subspecies *sacharovi*); White, 1978 (2); Stojanovich & Scott, 1995b (1, 2); Mattingly, 1969a (1), 1971 (1); Lu, 1997 (1); Sedaghat *et al.*, 2003b (2); Becker *et al.*, 2003 (1, 2).
- An. (Ano.) sapersoi* Bohart & Ingram: Bohart & Ingram, 1946a (1, 2), 1946b (1, 2).
- An. (Ano.) separatus* (Leicester): Reid, 1968 (1, 2).
- An. (Ano.) shannoni* Davis: Causey *et al.*, 1944 (1, 2); Levi-Castillo, 1949 (1); Freeborn, 1949 (2); Lane, 1953 (1, 2); Lounibos *et al.*, 1997b (1, 2).
- An. (Ano.) sinensis* Wiedemann: Urbino, 1936 (1, 2, as *hyrcanus* (Pallas) variety *sinensis*); Baisas & Hu, 1936 (1, 2, as *hyrcanus* variety *sinensis*); Urbino, 1936 (1, 2, as *hyrcanus* variety *sinensis*); Wu, 1936 (1, 2, as *hyrcanus* variety *sinensis*); Yamada, 1936 (1, 2, as *hyrcanus* variety *sinensis*), 1937 (2, as *hyrcanus* variety *sinensis*); Otsuru & Miyagawa,

- 1950 (2, as *hyrcanus* variety *sinensis*); Miyazaki, 1951 (1, 2); Reid, 1953 (1, 2), 1968 (1, 2); Ohmori, 1957 (1); Otsuru & Ohmori, 1960 (1, 2); Ma, 1964 (1, 2, as *hyrcanus* subspecies *sinensis* types), 1966 (1, 2, as *hyrcanus* subspecies *sinensis* types), 1981 (2, as *changfus* Ma); Harrison, 1972 (2); Xu & Feng, 1975 (1); Harrison & Scanlon, 1975 (2); Otsuru *et al.*, 1976 (2); Xu *et al.*, 1981 (1, 2); Rao, 1984 (2); Kang *et al.*, 1984 (2); Dang & Wang, 1985 (2); Linley *et al.*, 1995 (1, 2); Lu, 1997 (1), 1999 (1); Xu & Luo, 1998 (2); Rueda *et al.*, 2009 (1, 2).
- An. (Ano.) sineroides* S. Yamada: Yamada, 1936 (1, 2), 1937 (2); Ohmori, 1957 (1); Otsuru & Ohmori, 1960 (1, 2); Xu *et al.*, 1981 (1, 2); Rueda *et al.*, 2009 (1, 2).
- An. (Ano.) smaragdinus* Reinert: Linley *et al.*, 1993b (1, 2, as *quadrinaculatus* Complex species B); Reinert *et al.*, 1997 (1, 2); Linley *et al.*, 1998 (1).
- An. (Ano.) tasmaniensis* Dobrotworsky: Dobrotworsky, 1966 (1).
- An. (Ano.) tenebrosus* Dönitz: de Meillon, 1936b (1, 2, as *coustani* Laveran variety *tenebrosus*), 1947 (1, 2, as *coustani* variety *tenebrosus*), 1949 (2, as *coustani* variety *tenebrosus*); Evans, 1938 (1, 2, as *coustani* subspecies *tenebrosus*); Gillies & de Meillon, 1968 (1, 2).
- An. (Ano.) umbrosus* (Theobald): Reid, 1968 (1, 2).
- An. (Ano.) vanus* Walker: Reid, 1962 (1?, 2), 1968 (1, 2); Baisas, 1974 (1, 2).
- An. (Ano.) vestitipennis* Dyar & Knab: Vargas, 1941 (1, 2); Kumm, 1941 (1, 2); Levi-Castillo, 1949 (1); Freeborn, 1949 (2); Vargas & Martinez Palacios, 1950 (1), 1956 (1, 2); Rodriguez *et al.*, 1999 (1, 2).
- An. (Ano.) vietnamensis* Nguyen, Tran & Nguyen: Nguyen *et al.*, 1993 (2); Dong *et al.*, 2007 (2).
- An. (Ano.) walkeri* Theobald: Matheson & Hurlbut, 1937 (1); Hurlbut, 1938 (1, 2); Vargas, 1941 (2), 1950 (2); Buonomini & Mariani, 1953 (2); Vargas & Martinez Palacios, 1956 (2); Barr, 1958 (1, 2); Mattingly, 1969a (1).
- An. (Ano.) xui* Dong, Zhou, Dong & Mao: Dong *et al.*, 2007 (1, 2).
- An. (Ano.) yatsushiroensis* Miyazaki: Miyazaki, 1951 (1, 2); Ohmori, 1957 (1); Otsuru & Ohmori, 1960 (1, 2); Xu & Feng, 1975 (1); Ma, 1981 (1, as *xiaokuanus* Ma); Lei, 1996 (1, 2, as *junlianensis* Lei & *yatsushiroensis*); Lu, 1997 (1).
- An. (Ano.) ziemanni* Grünberg: Gibbins, 1933 (1, 2); Evans, 1938 (1, 2, as *coustani* Laveran subspecies *ziemanni*); de Meillon, 1947 (1, 2, as *coustani* variety *ziemanni*), 1949 (2, as *coustani* variety *ziemanni*); Gillies & de Meillon, 1968 (1, 2).
- Anopheles (Cellia) aconitus* Dönitz: Christophers & Barraud, 1931 (1, 2); Christophers & Puri, 1931 (2); Christophers, 1933 (1, 2); Walch & Walch-Sorgdrager, 1934 (1, 2); Wu, 1936 (1, 2); d'Abrera, 1944 (2); Reid, 1968 (1, 2); Mattingly, 1969a (1); Harbach & Knight, 1978 (1), 1980 (1); Harrison, 1980 (2).
- An. (Cel.) amictus* Edwards: Lee & Woodhill, 1944 (1, 2, as *amictus* subspecies *amictus*); Mattingly, 1969a (1).
- An. (Cel.) annularis* van der Wulp: Stephens & Christophers, 1902a (1, 2, as *fuliginosus* Giles); Christophers & Barraud, 1931 (1, 2, as *fuliginosus*); Christophers, 1933 (1, 2); Walch & Walch-Sorgdrager, 1934 (1, 2); Urbino, 1936 (1, 2); Wu, 1936 (1, 2); Roy & Siddons, 1939 (1, 2); d'Abrera, 1944 (2); Reid, 1968 (1, 2).
- An. (Cel.) annulipes* Walker: Cooling, 1924 (1); Lee & Woodhill, 1944 (1, 2); Dobrotworsky, 1965 (1).
- An. (Cel.) apoci* Marsh: Pringle *et al.*, 1960 (1); Mattingly, 1971 (1).
- An. (Cel.) arabiensis* Patton: Patton, 1905 (1, 2); White, 1985 (2); Lounibos *et al.*, 1999 (1, 2).

- An. (Cel.) ardensis* (Theobald): de Meillon, 1934 (1, 2), 1947 (1, 2), 1949 (2); Evans, 1938 (1, 2); Gillies & de Meillon, 1968 (1, 2).
- An. (Cel.) argenteolobatus* (Gough): de Meillon & Leeson, 1940 (1, 2); Edwards, 1941 (1, 2); de Meillon, 1947 (1, 2), 1949 (2); Gillies & de Meillon, 1968 (1, 2); Gillies & Coetzee, 1987 (1, 2).
- An. (Cel.) aruni* Sobti: Sobti, 1968 (2).
- An. (Cel.) azevedoi* Ribeiro: Ribeiro, 1969 (1, 2); Abdulla-Khan *et al.*, 1998 (2).
- An. (Cel.) balabacensis* Baisas: Baisas & Ubaldo Pagayon, 1956 (1, 2); Colless, 1956 (2, as *leucosphyrus* Dönitz subspecies *balabacensis*); Reid, 1968 (1, 2).
- An. (Cel.) barberellus* Evans: Peters, 1955 (1, 2); Gillies & de Meillon, 1968 (1, 2).
- An. (Cel.) bwambae* White: White, 1985 (1, 2); Lounibos *et al.*, 1999 (1, 2).
- An. (Cel.) caroni* Adam: Pajot & Adam, 1964 (1, 2); Gillies & de Meillon, 1968 (2); Mattingly, 1969a (1).
- An. (Cel.) christyi* (Newstead & Carter): Gibbins, 1933 (1, 2); Evans, 1938 (1, 2); de Meillon, 1947 (1, 2), 1949 (2); Doucet, 1951 (1, 2); Gillies & de Meillon, 1968 (1, 2); Mattingly, 1969a (1).
- An. (Cel.) cinereus* Theobald: Patton, 1905 (1, 2, as *jehafi* Patton); de Meillon, 1934 (1, 2), 1947 (1, 2), 1949 (2); Evans, 1938 (1, 2); Gillies & de Meillon, 1968 (1, 2); Mattingly, 1969a (1, 2), 1971 (1).
- An. (Cel.) cinereus hispaniola* (Theobald): Edwards, 1921 (1, as *hispaniola*); Séguy, 1924 (1, as *hispaniola*); Raffaele, 1928 (1, 2, as *italicus* Raffaele); Martini, 1931 (1); Sergent, 1937 (1, 2); Aitken, 1953 (2, as *hispaniola*), 1954 (2); Guy, 1959 (1, 2 as *hispaniola*).
- An. (Cel.) confusus* Evans & Leeson: Evans & Leeson, 1935 (1, 2, as *funestus* Giles variety *confusus*); Evans, 1938 (1, 2, as *funestus* variety *confusus*); de Meillon, 1947 (1, 2, as *funestus* variety *confusus*), 1949 (2, as *funestus* variety *confusus*); Gillies & de Meillon, 1968 (1, 2).
- An. (Cel.) culicifacies* Giles: Stephens & Christophers, 1902b (1, 2); Theobald, 1903 (1); Christophers, 1911 (1, 2, as *listoni* Giles), 1933 (1, 2); Christophers & Barraud, 1931 (1, 2); Wu, 1936 (1, 2); Evans, 1938 (2, as *culicifacies* variety *adenensis* Christophers); d'Abbrera, 1944 (1, 2); Beidas & Gillies, 1980 (1, 2, as *culicifacies* subspecies *adenensis*); Harrison, 1980 (2).
- An. (Cel.) cydippis* de Meillon: Evans, 1938 (1, 2, as *squamosus* Theobald variety *cydippis*); de Meillon, 1947 (1, 2, as *squamosus* variety *cydippis*), 1949 (2, as *squamosus* variety *cydippis*); Doucet, 1951 (1, 2, as *squamosus* variety *cydippis*); Gillies & de Meillon, 1968 (1, 2); Mattingly, 1969a (1, 2); Gillies & Coetzee, 1987 (1, 2).
- An. (Cel.) dancalicus* Corradetti: Mara, 1948 (1, 2); Gillies & de Meillon, 1968 (1, 2); Mattingly, 1969a (1).
- An. (Cel.) demeilloni* Evans: de Meillon, 1934 (1, 2), 1947 (1, 2), 1949 (2); Evans, 1938 (1, 2); Gillies & de Meillon, 1968 (1, 2).
- An. (Cel.) dirus* Peyton & Harrison *s.l.*: Damrongphol & Baimai, 1989 (1, 2, as *dirus* species A, B, C & D); Qu *et al.*, 1998 (1, 2, as *dirus* species A & D).
- An. (Cel.) dirus* Peyton & Harrison *s.s.*: Teng *et al.*, 1979 (1, 2, as *balabacensis* subspecies *balabacensis*).
- An. (Cel.) distinctus* (Newstead & Carter): de Meillon & Leeson, 1940 (1, 2); Edwards, 1941 (1, 2); de Meillon, 1947 (1, 2), 1949 (2); Gillies & de Meillon, 1968 (1, 2); Mattingly, 1969a (1).

- An. (Cel.) dravidicus* Christophers: Rattanarithikul & Green 1987 (1, 2).
- An. (Cel.) dthali* Patton: Patton, 1905 (1, 2); Theobald, 1910 (1); Christophers & Barraud, 1931 (1, 2); Christophers, 1933 (2); de Meillon, 1947 (1, 2), 1949 (2); Gillies & de Meillon, 1968 (1, 2); Ribeiro, 1969 (2); Mattingly, 1969a (1).
- An. (Cel.) durenii* Edwards: de Meillon, 1947 (1, 2), 1949 (2); Gillies & de Meillon, 1968 (1, 2).
- An. (Cel.) elegans* (James): Colless, 1956 (2).
- An. (Cel.) erepens* Gillies: Gillies, 1958 (1, 2, as *wellcomei* Theobald subspecies *erepens*); Gillies & de Meillon, 1968 (1, 2, as *wellcomei* subspecies *erepens*).
- An. (Cel.) farauti* Laveran: Lee & Woodhill, 1944 (1, 2, as *punctulatus* Dönitz subspecies *moluccensis* Swellengrebel & Swellengrebel do Graaf); Rageau & Vervent, 1959 (1); Belkin, 1962 (2); Hinton, 1968 (1, 2), 1981 (1); Bryan, 1974 (1, 2, as *farauti* numbers 1 & 2).
- An. (Cel.) filipinae* Manalang: Urbino, 1936 (1, 2); Baisas, 1974 (1, 2).
- An. (Cel.) flavicosta* Edwards: Gillies & Coetzee, 1987 (1, 2).
- An. (Cel.) flavirostris* (Ludlow): Urbino, 1936 (1, 2, as *minimus* Theobald variety *flavirostris*); Baisas, 1974 (1).
- An. (Cel.) fluviatilis* James: Christophers, 1911 (1, 2, as *listonii* Liston), 1933 (1, 2); Christophers & Barraud, 1931 (1, 2, as *listonii*); Christophers & Puri, 1931 (2, as *listonii*).
- An. (Cel.) funestus* Giles: Gibbins, 1933 (1, 2); de Meillon, 1934 (1, 2), 1941 (1), 1949 (1, 2); Lewis, 1934 (2); Evans & Leeson, 1935 (1, 2, as type form); Evans, 1938 (1, 2); Doucet, 1951 (1, 2); Service, 1960 (1, 2); Gillies & de Meillon, 1968 (1, 2); Baisas, 1974 (1).
- An. (Cel.) fuscivenosus* Leeson: de Meillon, 1947 (1, 2, as *funestus* Giles variety *fuscivenosus*).
- An. (Cel.) gambiae* Giles: Edwards, 1921 (1, as *costalis* Giles); Martini, 1931 (1, as *costalis*); Gibbins, 1933 (1, 2); Lewis, 1934 (2); de Meillon, 1934 (1, 2), 1947 (1, 2), 1949 (1, 2); Evans, 1938 (1, 2); Pinto, 1939 (1, 2); Russell *et al.*, 1943 (1); Causey *et al.*, 1944 (1, 2, as *gambiae* & *minor* Holstein); Freeborn, 1949 (2); Doucet, 1951 (1, 2); Guy, 1959 (1, 2); Russell *et al.*, 1963 (1); Coluzzi, 1964 (1, 2, as *gambiae* A & B); Gillies & de Meillon, 1968 (1, 2); Hinton, 1968 (1, 2), 1981 (1); Mattingly, 1969a (1), 1971 (1); White, 1985 (2); Clements, 1992 (1); Sahlén, 1996 (1, 2); Lounibos *et al.*, 1999 (1, 2).
- An. (Cel.) garnhami* Edwards: Corradetti, 1940 (1, 2); Gillies & de Meillon, 1968 (1, 2, as *walshi* Evans & de Meillon).
- An. (Cel.) gibbinsi* Evans: Evans, 1935 (2, as *marshallii* Theobald variety *gibbinsi*), 1938 (1, 2, as *marshallii* variety *gibbinsi*); de Meillon, 1947 (1, 2, as *marshallii* variety *gibbinsi*), 1949 (2, as *marshallii* variety *gibbinsi*); Gillies & de Meillon, 1968 (1, 2).
- An. (Cel.) hackeri* Edwards: Colless, 1956 (2); Reid, 1968 (2).
- An. (Cel.) hancocki* Edwards: Gibbins, 1933 (1, 2, as *theileri* Edwards variety *hancocki*); Evans, 1938 (1, 2); de Meillon, 1947 (1, 2), 1949 (2); Doucet, 1951 (1, 2); Gillies & de Meillon, 1968 (1, 2).
- An. (Cel.) hargreavesi* Evans: Evans, 1931 (1, 2), 1938 (1); de Meillon, 1947 (1, 2), 1949 (2); Gillies & de Meillon, 1968 (1, 2).
- An. (Cel.) hilli* Woodhill & Lee: Woodhill & Lee, 1944 (1, 2, as *amictus* Edwards subspecies *hilli*).
- An. (Cel.) hughi* Lambert & Coetzee: Lambert & Coetzee, 1982 (1, 2); Gillies & Coetzee, 1987 (1, 2).

- An. (Cel.) indefinitus* (Ludlow): Urbino, 1936 (1, 2, as *subpictus* Grassi variety *indefinitus* types 1, 2 & 3); Reid, 1968 (1, 2); Baisas, 1974 (1, 2, as *subpictus* subspecies *indefinitus*); Suguna *et al.*, 1994 (2).
- An. (Cel.) jamesii* Theobald: Christophers & Barraud, 1931 (1, 2); Christophers, 1933 (1, 2); Wu, 1936 (1, 2); d'Abrera, 1944 (1, 2); Reid, 1968 (1, 2).
- An. (Cel.) jeyporiensis* James: Theobald, 1903 (1); Christophers & Barraud, 1931 (1, 2); Christophers, 1933 (1, 2); Wu, 1936 (1, 2); Harrison, 1980 (2).
- An. (Cel.) karwari* (James): Christophers, 1933 (2); Urbino, 1936 (1, 2); Wu, 1936 (2); d'Abrera, 1944 (1, 2); Reid, 1968 (1, 2); Mattingly, 1969 (1).
- An. (Cel.) keniensis* Evans: de Meillon, 1947 (2), 1949 (2); Gillies, 1955 (2); Gillies & de Meillon, 1968 (1).
- An. (Cel.) kochi* Dönitz: Stanton, 1914 (2); Christophers & Barraud, 1931 (2); Christophers, 1933 (2); Walch & Walch-Sorgdrager, 1934 (1, 2); Urbino, 1936 (1, 2); Wu, 1936 (2); Baisas & Ubaldo Pagayon, 1956 (1, 2); Reid, 1968 (1, 2).
- An. (Cel.) koliensis* Owen: Bryan, 1974 (2); Belkin, 1962 (2).
- An. (Cel.) kosiensis* Coetzee, Segerman & Hunt: Coetzee *et al.*, 1987 (1, 2).
- An. (Cel.) lesoni* Evans: de Meillon, 1934 (1, 2, as *funestus* Giles subspecies *lesoni*), 1941 (1), 1947 (1, 2), 1949 (2); Evans & Leeson, 1935 (1, 2); Evans, 1938 (1, 2); Gillies, 1955 (2); Gillies & de Meillon, 1968 (1, 2); Mattingly, 1969a (1).
- An. (Cel.) letabensis* Lambert & Coetzee: Lambert & Coetzee, 1982 (1, 2); Gillies & Coetzee, 1987 (1, 2).
- An. (Cel.) leucosphyrus* Dönitz: Iyengar, 1938 (1, 2); d'Abrera, 1944 (2); Reid, 1968 (1, 2).
- An. (Cel.) limosus* King: Urbino, 1936 (1, 2, as *vagus* Dönitz variety *limosus*); Baisas, 1974 (1, 2, as *vagus* subspecies *limosus*).
- An. (Cel.) listeri* de Meillon: de Meillon, 1936a (1, 2), 1947 (2); Gillies & de Meillon, 1968 (2); Gillies & Coetzee, 1987 (1, 2); Abdulla-Khan *et al.*, 1998 (2).
- An. (Cel.) litoralis* King: Urbino, 1936 (1, 2).
- An. (Cel.) longipalpis* (Theobald): de Meillon, 1934 (1, 2), 1947 (1, 2), 1949 (2); Evans, 1938 (1, 2); Gillies & de Meillon, 1968 (1).
- An. (Cel.) ludlowae* (Theobald): Strickland, 1914 (1); Urbino, 1936 (1, 2); Mattingly, 1969a (1, 2); Baisas, 1974 (1, 2).
- An. (Cel.) lungae* Belkin & Schlosser: Belkin, 1962 (2).
- An. (Cel.) machardy* Edwards: Gillies, 1955 (1, 2); Gillies & de Meillon, 1968 (1, 2).
- An. (Cel.) maculatus* Theobald: Christophers, 1911 (1, 2), 1933 (1, 2); Christophers & Barraud, 1931 (1, 2); Walch & Walch-Sorgdrager, 1934 (2); Urbino, 1936 (1, 2); Wu, 1936 (1, 2); Roy & Siddons, 1939 (1, 2); d'Abrera, 1944 (2); Leeson & Buxton, 1949 (1); Reid, 1968 (1, 2); Mattingly, 1969a (1); Rattanarithikul & Green 1987 (1, 2).
- An. (Cel.) maculipalpis* Giles: Stephens & Christophers, 1902b (1, 2); Theobald, 1903 (1); Gillies & de Meillon, 1968 (2).
- An. (Cel.) mangyanus* (Banks): Urbino, 1936 (1, 2); Baisas, 1974 (1).
- An. (Cel.) marshallii* (Theobald): Gibbins, 1933 (1, 2, as *marshallii* & *transvaalensis* Carter); de Meillon, 1934 (1, 2), 1947 (1, 2), 1949 (2); Evans, 1938 (1, 2, as *marshallii* & *marshallii* variety *pitchfordi* Giles); Doucet, 1951 (1, 2); Gillies & de Meillon, 1968 (1, 2); Lambert & Coetzee, 1982 (1, 2); Gillies & Coetzee, 1987 (1, 2).
- An. (Cel.) mascarensis* de Meillon: Coetzee, 1994a (1, 2).

- An. (Cel.) melas* Theobald: de Meillon, 1947 (1, 2, as *gambiae* Giles variety *melas*), 1949 (2, as *gambiae* variety *melas*); Doucet, 1951 (1, 2, as *gambiae* variety *melas*); Coluzzi, 1964 (1, 2); Gillies & de Meillon, 1968 (1, 2); Mattingly, 1969a (1); Hinton, 1981 (1); White, 1985 (1, 2); Lounibos *et al.*, 1999 (1, 2).
- An. (Cel.) meraukensis* Venhuis: Lee & Woodhill, 1944 (1, 2).
- An. (Cel.) merus* Dönitz: Coluzzi, 1964 (1, 2); Gillies & de Meillon, 1968 (2); Hinton, 1968 (1, 2), 1981 (1); White, 1985 (1, 2); Lounibos *et al.*, 1999 (1, 2).
- An. (Cel.) millecampsi* Lips: Gillies & de Meillon, 1968 (1).
- An. (Cel.) minimus* Theobald: Stephens & Christophers, 1902a (1, 2, as *christophersi* Theobald); Christophers & Barraud, 1931 (1?, 2?); Morishita, 1932 (1, 2); Christophers, 1933 (2); Wu, 1936 (1, 2); Reid, 1968 (1, 2); Harrison, 1980 (2); Lu, 1997 (1).
- An. (Cel.) moghulensis* Christophers: Christophers & Barraud, 1931 (1, 2); Christophers, 1933 (1, 2).
- An. (Cel.) moucheti* Evans: Gibbins, 1933 (1, 2); Evans, 1938 (1, 2, as *moucheti* subspecies *nigeriensis* Evans); de Meillon, 1947 (1, 2), 1949 (2); Gillies & de Meillon, 1968 (1, 2); Mattingly, 1969a (1).
- An. (Cel.) mousinhoi* de Meillon & Pereira: Hunt & Coetzee, 1992 (1, 2).
- An. (Cel.) multicolor* Cambouliu: Foley, 1912 (1); Edwards, 1921 (1); Séguy, 1924 (1, as *chaudoyei* Theobald); Christophers & Barraud, 1931 (2); Martini, 1931 (1); Christophers, 1933 (2); Evans, 1938 (2); Saliternik, 1942 (1, 2); de Meillon, 1947 (1, 2), 1949 (2); Guy, 1959 (1, 2); Gillies & de Meillon, 1968 (1, 2); Mattingly, 1969a (1, 2), 1971 (1).
- An. (Cel.) murphyi* Gillies & de Meillon: Gillies & de Meillon, 1968 (2); Mattingly, 1969a (1), 1971 (1).
- An. (Cel.) natalensis* (Hill & Haydon): Gillies & Coetzee, 1987 (1, 2).
- An. (Cel.) nili* (Theobald): Theobald, 1910 (1); Evans, 1938 (1, 2); de Meillon, 1947 (1, 2), 1949 (2); Gillies & de Meillon, 1968 (1, 2); Ribeiro, 1969 (2); Mattingly, 1969a (1, 2), 1971 (1).
- An. (Cel.) notanandai* Rattanarithikul & Green: Rattanarithikul & Green, 1987 (1, 2).
- An. (Cel.) novaguinensis* Venhuis: Lee & Woodhill, 1944 (1, 2); Mattingly, 1969a (1).
- An. (Cel.) pallidus* Theobald: Christophers & Barraud, 1931 (1, 2); Christophers, 1933 (1, 2); d'Abbrera, 1944 (2).
- An. (Cel.) parensis* Gillies: Gillies, 1962 (2); Gillies & de Meillon, 1968 (2).
- An. (Cel.) pauliani* Grjebine: Coetzee, 1994a (1, 2).
- An. (Cel.) pharoensis* Theobald: Theodor, 1925 (1, 2); Martini, 1931 (1); Gibbins, 1933 (1, 2); Lewis, 1934 (2); Evans, 1938 (1, 2); Saliternik, 1942 (1); de Meillon, 1947 (1, 2), 1949 (2); Doucet, 1951 (1, 2); Senevet & Andarelli, 1955b (2); Guy, 1959 (1, 2); Gillies & de Meillon, 1968 (1, 2); Hinton, 1968 (1, 2), 1981 (1); Mattingly, 1969a (1).
- An. (Cel.) philippinensis* Ludlow: Christophers & Barraud, 1931 (2); Walch & Walch-Sorgdrager, 1934 (1, 2, as *annularis* van der Wulp variety *philippinensis*); Urbino, 1936 (1, 2); Roy & Siddons, 1939 (1, 2); Reid, 1968 (1, 2); Mattingly, 1969a (1).
- An. (Cel.) pretoriensis* (Theobald): Patton, 1905 (1, 2, as *tibani* Patton); Theobald, 1910 (1, as *tibani*); de Meillon, 1934 (1, 2), 1947 (1, 2), 1949 (2); Evans, 1938 (1, 2); Doucet, 1951 (1, 2); Gillies & de Meillon, 1968 (1, 2); Mattingly, 1969a (1).
- An. (Cel.) pseudojamesi* Strickland & Chowdhury: Christophers & Barraud, 1931 (1, 2, as *ramsayi* Covell); Christophers, 1933 (1, 2, as *ramsayi*); d'Abbrera, 1944 (2, as *ramsayi*); Reid, 1968 (1, 2, as *ramsayi*).

- An. (Cel.) pseudowillmori* (Theobald): Rattanarithikul & Green, 1987 (1, 2).
- An. (Cel.) pulcherrimus* Theobald: Stephens & Christophers, 1902b (1, 2); Theobald, 1903 (1); Edwards, 1921 (1); Christophers & Barraud, 1931 (1, 2); Martini, 1931 (1); Christophers, 1933 (1, 2); Wu, 1936 (1, 2).
- An. (Cel.) punctulatus* Dönitz: Walch & Walch-Sorgdrager, 1934 (1, 2, as *punctulatus typicus*); Belkin, 1962 (2); Bryan, 1974 (2).
- An. (Cel.) quadriannulatus* Theobald: White, 1985 (2); Lounibos *et al.*, 1999 (1, 2).
- An. (Cel.) rageaui* Mattingly & Adam: Adam & Mattingly, 1956 (1, 2, as *smithi* Theobald variety *rageaui* Mattingly & Adam).
- An. (Cel.) rhodesiensis rhodesiensis* Theobald: Edwards, 1921 (1); Martini, 1931 (1); Gillies, 1955 (2); Guy, 1959 (1, 2).
- An. (Cel.) rhodesiensis rupicolus* Lewis: Salem, 1938 (1, 2, as *aegypti* Salem); Edwards, 1941 (1, as *rupicolus*); de Meillon, 1947 (1, 2).
- An. (Cel.) rivulorum* Leeson: Evans, 1938 (1, 2, as *rivulorum* variety *garnhamellus* Evans & Leeson); de Meillon, 1947 (1, 2), 1949 (2); Gillies & de Meillon, 1968 (1, 2).
- An. (Cel.) rufipes* (Gough): de Meillon, 1934 (1, 2), 1947 (1, 2), 1949 (2); Lewis, 1934 (1, 2); Evans, 1938 (1, 2); Doucet, 1951 (1, 2); Gillies & de Meillon, 1968 (1, 2).
- An. (Cel.) sawadwongporni* Rattanarithikul & Green: Rattanarithikul & Green, 1987 (1, 2).
- An. (Cel.) schwetzi* Evans: de Meillon, 1947 (1, 2, as *michaeli* de Meillon & Leeson), 1949 (2, as *michaeli*); Gillies & de Meillon, 1968 (2).
- An. (Cel.) seretsei* Abdulla-Khan, Coetzee & Hunt: Abdulla-Khan *et al.*, 1998 (1, 2).
- An. (Cel.) sergentii* Theobald: Theodor, 1925 (1, 2); Christophers & Barraud, 1931 (2); Martini, 1931 (1); Christophers, 1933 (2); Saliternik, 1942 (1, 2), 1955 (1, 2).
- An. (Cel.) seydeli* Edwards: Gillies, 1955 (1, 2); Gillies & de Meillon, 1968 (1, 2).
- An. (Cel.) smithii* Theobald: Gillies & de Meillon, 1968 (1, 2).
- An. (Cel.) solomonsis* Belkin, Knight & Rozeboom: Belkin, 1962 (2).
- An. (Cel.) splendidus* Koidzumi: Christophers, 1933 (1, 2); Wu, 1936 (1, 2); Harrison, 1972 (2, as *indensis* Theobald); Gupta & Chaudhry, 2005 (1, 2).
- An. (Cel.) squamosus* Theobald: Newstead & Carter, 1911 (1, 2, as *squamosa* variety *arnoldi* Stephens & Christophers); Gillies & de Meillon, 1968 (1, 2); Mattingly, 1969a (1).
- An. (Cel.) stephensi* Liston: Stephens & Christophers, 1902b (1, 2); Theobald, 1903 (1); Edwards, 1921 (1); Christophers & Barraud, 1931 (1, 2); Martini, 1931 (1); Christophers, 1933 (1, 2); Sweet & Rao, 1937 (2); Rao *et al.*, 1938 (1, 2, as *stephensi* type & variety *mysorensis* Sweet & Rao); Hinton, 1968 (1, 2), 1981 (1); Mattingly, 1969b (1).
- An. (Cel.) subpictus* Grassi: Stephens & Christophers, 1902a (1, 2), 1902b (1, 2); Christophers & Barraud, 1931 (1, 2); Christophers, 1933 (1, 2); Walch & Walch-Sorgdrager, 1934 (2), 1935 (1); Wu, 1936 (1, 2); Saliternik, 1942 (1, 2); d'Abrera, 1944 (2); Leeson & Buxton, 1949 (1); Weyer, 1954 (1); Reid, 1968 (1, 2).
- An. (Cel.) subpictus* Grassi *s.l.*: Reuben & Suguna, 1983 (1, 2, as *subpictus* species A & B, *subpictus* other forms); Das *et al.*, 1990 (1, as *subpictus* species A & B); Suguna *et al.*, 1994 (1, 2, as *subpictus* species A, B, C & D).
- An. (Cel.) sundaicus* (Rodenwaldt): Christophers & Barraud, 1931 (1, 2, as *ludlowii* (Theobald) variety *sundaicus*); Martini, 1931 (1); Christophers, 1933 (1, 2); Walch & Walch-Sorgdrager, 1934 (1, 2, as *ludlowi* variety *sundaica*); Hinton, 1968 (1, 2), 1981 (1); Reid, 1968 (1, 2); Suguna *et al.*, 1994 (2).

- An. (Cel.) superpictus* Grassi: Theodor, 1925 (1, 2); Christophers & Barraud, 1931 (2); Christophers, 1933 (1, 2); Shannon & Hadjinalao, 1941 (2); Bates, 1941 (2); Saliternik, 1942 (1, 2); Peus, 1954 (1, as *hellenicus* Peus); Aitken, 1954 (2); Mattingly, 1969a (1).
- An. (Cel.) tessellatus* Theobald: Stanton, 1913 (1, 2), 1926 (1); Christophers & Barraud, 1931 (1, 2); Christophers, 1933 (1, 2); Walch & Walch-Sorgdrager, 1934 (1, 2, as *punctulatus* Dönitz subspecies *tesselatus* [sic]); Urbino, 1936 (1, 2); Wu, 1936 (1, 2); d'Abrera, 1944 (2); Baisas & Ubaldo Pagayon, 1956 (1, 2); Reid, 1968 (1, 2).
- An. (Cel.) theileri* Edwards: de Meillon, 1934 (1, 2), 1947 (1, 2), 1949 (2); Evans, 1938 (1, 2); Doucet, 1951 (1, 2); Gillies & de Meillon, 1968 (1, 2).
- An. (Cel.) theobaldi* Giles: Stephens & Christophers, 1902b (2); Christophers & Barraud, 1931 (2).
- An. (Cel.) turkhudi* Liston: Stephens & Christophers, 1902b (1, 2); Theobald, 1903 (1); Howard *et al.*, 1913 (2); Edwards, 1921 (1); Christophers & Barraud, 1931 (1, 2); Martini, 1931 (1); Christophers, 1933 (1, 2); Evans, 1938 (2); de Meillon, 1947 (1, 2), 1949 (2); Gillies & de Meillon, 1968 (1).
- An. (Cel.) vagus* Dönitz: de Vogel, 1907 (1, 2); Christophers & Barraud, 1931 (1, 2); Christophers, 1933 (1, 2); Walch & Walch-Sorgdrager, 1934 (2); Wu, 1936 (1, 2); d'Abrera, 1944 (2); Cova-Garcia, 1946 (1); Reid, 1968 (1, 2); Suguna *et al.*, 1994 (2).
- An. (Cel.) varuna* Iyengar: d'Abrera, 1944 (1, 2).
- An. (Cel.) walravensi* Edwards: de Meillon, 1947 (1, 2), 1949 (2); Gillies & de Meillon, 1968 (1, 2).
- An. (Cel.) wellcomei* Theobald: de Meillon, 1947 (1, 2), 1949 (2); Gillies & de Meillon, 1968 (1, 2, as *wellcomei* subspecies *wellcomei*).
- An. (Cel.) willmori* (James): Christophers & Barraud, 1931 (1, 2, as *maculatus* Theobald variety *willmori*); Christophers, 1933 (2, as *maculates* variety *willmori*); Rattarithikul & Green 1987 (1, 2).
- An. (Cel.) wilsoni* Evans: Gillies, 1955 (1, 2); Gillies & de Meillon, 1968 (1, 2); Mattingly, 1969a (1, 2), 1971 (1).
- Anopheles (Kerteszia) bambusicolus* Komp: Levi-Castillo, 1949 (1); Cova-Garcia & Sutil Oramas, 1977 (1).
- An. (Ker.) bellator* Dyar & Knab: Rozeboom, 1942 (1, 2); Freeborn, 1949 (2); Forattini, 1996 (1).
- An. (Ker.) boliviensis* (Theobald): Cova-Garcia, 1946 (1); Levi-Castillo, 1949 (1); Freeborn, 1949 (2); Lane, 1953 (1, 2).
- An. (Ker.) cruzii* Dyar & Knab: Corrêa, 1946 (1); Cova-Garcia, 1946 (1); Levi-Castillo, 1949 (1); Freeborn, 1949 (2); Forattini, 1962 (1), 1996 (1); Cova-Garcia & Sutil Oramas, 1977 (1).
- An. (Ker.) gonzalezrinconesi* Cova-Garcia, Pulido F. & Escalante de Ugueto: Cova-Garcia, 1977b (1).
- An. (Ker.) homunculus* Komp: Cova-Garcia, 1946 (1); Levi-Castillo, 1949 (1); Freeborn, 1949 (2); Lane, 1953 (1, 2); Cova-Garcia & Sutil Oramas, 1977 (1).
- An. (Ker.) laneanus* Corrêa & Cerqueira: Corrêa, 1946 (1); Forattini *et al.*, 1997b (1, 2); Forattini, 2002 (1).
- An. (Ker.) neivai* Howard, Dyar & Knab: Baerg & Boreham, 1974a (1, 2).
- An. (Ker.) pholidotus* Zavortink: Cova-Garcia & Sutil Oramas, 1977 (1).

- Anopheles (Lophopodomyia) gilesi* (Peryassú): Deane *et al.*, 1943 (1, 2); Causey *et al.*, 1944 (1, 2); Levi-Castillo, 1949 (1); Freeborn, 1949 (2); Lane, 1953 (1, 2).
- An. (Lph.) squamifemur* Antunes: Boreham & Baerg, 1974 (1, 2).
- An. (Lph.) vargasi* Gabaldón, Cova-Garcia & Lopez: Gabaldón *et al.*, 1941b (1); Lane, 1953 (2); Cova-Garcia, 1946 (1); Levi-Castillo, 1949 (1); Cova-Garcia & Sutil Oramas, 1977 (1).
- Anopheles (Nyssorhynchus) albertoi* Unti: Unti, 1941 (1, 2, as *strodei* Root variety *albertoi*); Sallum *et al.*, 2010 (1, 2).
- An. (Nys.) albimanus* Wiedemann: Root, 1926 (1, 2, as *tarsimaculata* Goeldi); Galvão *et al.*, 1937 (1, 2, as *tarsimaculata*); Galvão & Lane, 1937b (1, 2, as *tarsimaculata*); Rozeboom, 1938 (1, 2, as *albimanus* & *tarsimaculata*), 1942 (1); Vargas, 1941 (2); Kumm, 1941 (1, 2); Causey *et al.*, 1942 (1, as *tarsimaculatus*); Levi-Castillo, 1945b (1); Cova-Garcia, 1946 (1); Freeborn, 1949 (2); Lane, 1953 (1, 2); Vargas & Martínez Palacios, 1956 (2); Rodríguez *et al.*, 1992a (1, 2), 1992b (1, 2); Cova-Garcia & Sutil Oramas, 1977 (1); Sahlén, 1996 (1); Monnerat *et al.*, 1999 (1, 2).
- An. (Nys.) albitarsis* Lynch Arribálzaga: Root, 1926 (1, 2); Galvão & Lane, 1936 (1, 2), 1937a (1, 2), 1937b (1, 2, as *albitarsis* subspecies *albitarsis* & variety *limai* Galvão & Lane); Rozeboom, 1937a (1, 2), 1938 (2), 1942 (1, 2); Galvão & Barretto, 1938a (1, as *albitarsis* variety *limai*), 1938b (1, 2); Pinto, 1939 (2); Galvão, 1940 (1, as *albitarsis* & *albitarsis* subspecies *limai*); Causey *et al.*, 1942 (1, 2), 1944 (1, 2); Cova-Garcia, 1946 (1); Levi-Castillo, 1949 (1); Freeborn, 1949 (2); Lane, 1953 (1, 2, as *albitarsis* subspecies *albitarsis*); Forattini, 1962 (1), 1996 (1); Cova-Garcia & Sutil Oramas, 1977 (1).
- An. (Nys.) anomalophyllus* Komp: Kumm, 1941 (1, 2); Levi-Castillo, 1949 (1); Lane, 1953 (1, 2).
- An. (Nys.) antunesi* Galvão & Amaral: Galvão & Amaral, 1940 (1, 2); Galvão, 1941a (1); Levi-Castillo, 1949 (1); Freeborn, 1949 (2); Lane, 1953 (1, 2); Forattini, 1962 (1); Forattini *et al.*, 1997b (1, 2); Nagaki *et al.*, 2010 (1, 2).
- An. (Nys.) aquasalis* Curry: Komp, 1941 (1, 2, as *aquasalis* & *emilianus* Komp); Ramos, 1942 (1, 2, as *oswaldoi* variety *guarujaensis* Ramos); Rozeboom, 1942 (1, 2); Causey *et al.*, 1944 (1, 2); Floch & Abonnenc, 1943 (1, 2), 1951 (1, 2); Levi-Castillo, 1945b (1), 1949 (1); Cova-Garcia, 1946 (1), 1964 (1, 2, as *aquasalis* & *emilianus*); Freeborn, 1949 (2); Lane, 1953 (1, 2); Forattini, 1962 (1); Cova-Garcia & Sutil Oramas, 1977 (1, as *aquasalis* & *emilianus*); Cova-Garcia *et al.*, 1977a (1, as *deltaorinoquensis* Cova-Garcia, Pulido F. & Amarista M.); Linley *et al.*, 1993a (1, 2); Maldonado *et al.*, 1997 (1, 2).
- An. (Nys.) argyritarsis* Robineau-Desvoidy: Galvão & Lane, 1937b (1, 2); Rozeboom, 1938 (1, 2); Galvão & Barretto, 1938a (1, 2); Pinto, 1939 (1, 2); Galvão, 1940 (1); Vargas, 1941 (2); Kumm, 1941 (1, 2); Causey *et al.*, 1944 (1, 2); Cova-Garcia, 1946 (1); Levi-Castillo, 1949 (1); Freeborn, 1949 (2); Lane, 1953 (1, 2); Vargas & Martínez Palacios, 1956 (2); Forattini, 1962 (1); Cova-Garcia & Sutil Oramas, 1977 (1).
- An. (Nys.) arthuri* Unti: Galvão, 1938 (1, 2, as *strodei* Root group II); Rozeboom, 1938 (1, 2, as *strodei* type A), 1942 (1, as *strodei* type A); Unti, 1941 (1, 2, as *strodei* variety *arthuri*); Lounibos *et al.*, 1997 (1, 2, as *strodei*); Sallum *et al.*, 2010 (1, 2, as *arthuri*; see discussion on this and related species).
- An. (Nys.) benarrochi* Gabaldón, Cova-Garcia & Lopez: Gabaldón *et al.*, 1941a (1, 2); Causey *et al.*, 1944 (1, 2); Cova-Garcia, 1946 (1); Levi-Castillo, 1949 (1); Freeborn, 1949 (2); Lane, 1953 (1, 2); Lounibos *et al.*, 1997a (1, 2).

- An. (Nys.) braziliensis* (Chagas): Galvão & Lane, 1937a (1, 2, as *peessoai* Galvão & Lane), 1937b (1, 2, as *peessoai*); Galvão, 1941b (1, 2, as *peessoai*); Causey *et al.*, 1944 (1, 2, as *peessoai*); Cova-Garcia, 1946 (1, as *peessoai*); Levi-Castillo, 1949 (1, as *peessoai*); Freeborn, 1949 (2); Floch & Abonnenc, 1951 (1, 2, as *peessoai*); Lane, 1953 (1, 2); Cova-Garcia & Sutil Oramas, 1977 (1).
- An. (Nys.) darlingi* Root: Root, 1926 (1, 2); Galvão *et al.*, 1937 (1, 2, as *darlingi* variety *paulistensis* Galvão, Lane & Correa); Galvão & Lane, 1937b (1, 2, as *darlingi* subspecies *paulistensis*); Galvão & Barretto, 1938a (1, 2, as *darlingi* variety *paulistensis*); Galvão, 1940 (1, as *darlingi* & *darlingi* subspecies *paulistensis*); Vargas, 1941 (2, as *darlingi* subspecies *darlingi* & *paulistensis*); Rozeboom, 1942 (1, 2, as *darlingi* subspecies *darlingi* & *paulistensis*), 1946 (2); Causey *et al.*, 1942 (1, 2), 1944 (1, 2); Cova-Garcia, 1946 (1); Levi-Castillo, 1949 (1); Freeborn, 1949 (2); Floch & Abonnenc, 1951 (2); Lane, 1953 (1, 2); Vargas & Martinez Palacios, 1956 (2); Forattini, 1962 (1); Cova-Garcia & Sutil Oramas, 1977 (1); Linley, 1992 (1, 2).
- An. (Nys.) deaneorum* Rosa-Freitas: Rosa-Freitas, 1989 (2).
- An. (Nys.) dominicanus* Zavortink & Poinar: Zavortink & Poinar, 2000 (1, 2, in amber).
- An. (Nys.) dunhami* Causey: Causey, 1945 (1, 2); Lounibos *et al.*, 1997a (1, 2), 1998 (1, 2); Lounibos & Conn, 2000 (1).
- An. (Nys.) evansae* (Brethés): Galvão & Lane, 1937b (1, 2, as *oswaldoi* (Peryassú) variety *noroestensis* Galvão & Lane); Galvão, 1938 (1, 2, as *oswaldoi* variety *noroestensis*), 1940 (1, as *oswaldoi* subspecies *noroestensis*); Unti, 1940 (1, 2, as *oswaldoi* varieties *ayrozai* Unti & *noroestensis*), 1942 (1, 2, as *oswaldoi* variety *ayrozai*); Ramos, 1942 (1, 2, as *oswaldoi* variety *noroestensis*); Rozeboom, 1942 (1, 2, as *oswaldoi* varieties *noroestensis* & *ayrozai*); Causey *et al.*, 1944 (1, 2, as *noroestensis*); Levi-Castillo, 1949 (1); Freeborn, 1949 (2, as *noroestensis*); Lane, 1953 (1, 2, as *noroestensis*); Forattini, 1962 (1, as *noroestensis*); Sallum *et al.*, 2002 (1, 2).
- An. (Nys.) galvaoi* Causey, Deane & Deane: Causey *et al.*, 1943a (1, 2), 1944 (1, 2); Levi-Castillo, 1949 (1); Freeborn, 1949 (2); Lane, 1953 (1, 2); Sallum *et al.*, 2002 (1, 2).
- An. (Nys.) goeldii* Rozeboom & Gabaldón: Rozeboom & Gabaldón, 1941 (2); Floch & Abonnenc, 1943 (1, 2); Causey *et al.*, 1944 (1, 2).
- An. (Nys.) halophylus* Silva do Nascimento & Lourenço-de-Oliveira: Silva do Nascimento & Lourenço-de-Oliveira, 2002 (1, 2).
- An. (Nys.) konderi* Galvão & Damasceno: Causey *et al.*, 1944 (1?, 2); Levi-Castillo, 1949 (1); Freeborn, 1949 (2); Lounibos *et al.*, 1997a (1, 2); Flores-Mendoza *et al.*, 2004 (1, 2).
- An. (Nys.) lanei* Galvão & Amaral: Galvão & Amaral, 1938 (1, 2); Galvão, 1940 (1); Levi-Castillo, 1949 (1); Freeborn, 1949 (2); Lane, 1953 (1, 2).
- An. (Nys.) lutzii* Cruz: Cruz, 1901 (1, 2); Theobald, 1910 (1); Galvão, 1938 (1, 2), 1941a (1); Levi-Castillo, 1949 (1); Freeborn, 1949 (2); Lane, 1953 (1, 2); Forattini, 1962 (1); Forattini *et al.*, 1998 (1, 2).
- An. (Nys.) marajoara* Galvão & Damasceno: Galvão & Damasceno, 1944 (1, 2, as *albitarsis* Lynch Arribálzaga subspecies *domesticus* Galvão & Damasceno).
- An. (Nys.) nuneztovari* Gabaldón: Floch & Abonnenc, 1943 (1, 2); Cova-Garcia, 1946 (1); Levi-Castillo, 1949 (1); Lane, 1953 (1, 2); Sutil Oramas, 1976 (1, 2); Linley *et al.*, 1996 (1, 2); Lounibos *et al.*, 1998 (1, 2).
- An. (Nys.) oswaldoi* (Peryassú): Galvão & Lane, 1937b (1, 2, as *oswaldoi* variety *metcalfi* Galvão & Lane); Galvão, 1938 (1, 2, as *oswaldoi* variety *oswaldoi*), 1940 (1, as *oswaldoi*)

- subspecies *oswaldoi*), 1941b (1, 2); Ramos, 1942 (1, 2, as *oswaldoi* variety *typicus*); Rozeboom, 1938 (1, 2), 1942 (1, 2, as *oswaldoi* varieties *metcalfi* & *oswaldoi*); Unti, 1940 (2, as *oswaldoi* subspecies *oswaldoi*); Causey *et al.*, 1942 (1), 1944 (1, 2); Floch & Abonnenc, 1943 (1, 2), 1951 (2); Cova-Garcia, 1946 (1); Levi-Castillo, 1949 (1); Freeborn, 1949 (2); Lane, 1953 (1, 2); Forattini, 1962 (1); Lounibos *et al.*, 1997a (1, 2).
- An. (Nys.) parvus* (Chagas): Causey *et al.*, 1944 (1, 2); Cova-Garcia, 1946 (1); Levi-Castillo, 1949 (1); Lane, 1953 (1); Cova-Garcia & Sutil Oramas, 1977 (1); Forattini *et al.*, 1998 (1, 2); Forattini, 2002 (1).
- An. (Nys.) pictipennis* (Philippi): Freeborn, 1949 (2); Lane, 1953 (1, 2).
- An. (Nys.) pristinus* Nagaki & Sallum: Nagaki *et al.*, 2010 (1, 2).
- An. (Nys.) rangeli* Gabaldón, Cova-Garcia & Lopez: Gabaldón *et al.*, 1940 (1, 2); Floch & Abonnenc, 1943 (1, 2); Causey *et al.*, 1944 (1, 2); Cova-Garcia, 1946 (1); Levi-Castillo, 1949 (1); Freeborn, 1949 (2); Lane, 1953 (1, 2); Linley & Lounibos, 1993 (1, 2).
- An. (Nys.) rondoni* (Neiva & Pinto): Corrêa & Ramos, 1944 (2); Freeborn, 1949 (2); Forattini *et al.*, 1998 (1, 2).
- An. (Nys.) sawyeri* Causey, Deane, Deane & Sampaio: Causey *et al.*, 1943b (1, 2), 1944 (1, 2); Levi-Castillo, 1949 (1); Freeborn, 1949 (2, as *argyritarsis* Robineau-Desvoidy subspecies *sawyeri*); Lane, 1953 (1, 2, as *argyritarsis* subspecies *sawyeri*).
- An. (Nys.) strodei* Root: Galvão & Lane, 1936 (1, 2), 1937b (1, 2); Galvão, 1938 (1, 2, as *strodei* group I), 1940 (1, as *strodei* group I); Rozeboom, 1938 (1, 2, as *strodei* types B & C), 1942 (1, as *strodei* type B & group I); Galvão & Franco do Amaral, 1938 (1); Galvão & Barretto, 1938a (1, 2); Vargas, 1941 (2); Kumm, 1941 (1, 2); Unti, 1941 (1, 2, as *strodei typicus*); Rozeboom, 1942 (1, 2, as *strodei* types A & B); Causey *et al.*, 1944 (1, 2); Cova-Garcia, 1946 (1); Levi-Castillo, 1949 (1); Freeborn, 1949 (2, as *strodei* subspecies *strodei*); Floch & Abonnenc, 1951 (2); Lane, 1953 (1, 2); Vargas & Martinez Palacios, 1956 (2); Forattini, 1962 (1); Cova-Garcia & Sutil Oramas, 1977 (1); Sallum *et al.*, 2010 (as *strodei*; see discussion on this and related species).
- An. (Nys.) triannulatus* (Neiva & Pinto): Galvão *et al.*, 1937 (1, 2, as *triannulatus* subspecies *bachmanni* Petrocchi); Galvão & Lane, 1937b (1, 2, as *triannulatus* subspecies *bachmanni*); Galvão & Barretto, 1938b (1, 2, as *triannulatus* subspecies *bachmanni*); Rozeboom, 1938 (1, 2, as *triannulatus* subspecies *bachmanni*), 1942 (1, 2, as *triannulatus* subspecies *davisi* Paterson & Shannon & *triannulatus*); Pinto, 1939 (1); Galvão, 1940 (1, as *triannulatus* subspecies *davisi* & *triannulatus*); 1941b (1, as *triannulatus* variety *chagasi* Galvão); Causey *et al.*, 1944 (1, 2); Floch & Abonnenc, 1943 (1, 2), 1944 (1, 2), 1951 (2); Cova-Garcia, 1946 (1, as *triannulatus* subspecies *davisi*); Levi-Castillo, 1949 (1, as *triannulatus* subspecies *chagasi*, *davisi* & *triannulatus*); Freeborn, 1949 (2, as *triannulatus* subspecies *chagasi*, *davisi* & *triannulatus*); Floch & Abonnenc, 1951 (1, 2); Lane, 1953 (1, 2, as *triannulatus* & subspecies *davisi*); Forattini, 1962 (1); Lounibos *et al.*, 1997a (1, 2).
- An. (Nys.) trinkae* Faran: Linley & Lounibos, 1993 (1, 2, as *dunhami* Causey); Lounibos *et al.*, 1998 (1, 2); Lounibos & Conn, 2000 (1).
- Anopheles (Stethomyia) kompi* Edwards: Causey *et al.*, 1944 (1, 2); Cova-Garcia, 1946 (1); Levi-Castillo, 1949 (1); Freeborn, 1949 (2); Lane, 1953 (1, 2); Cova-Garcia & Sutil Oramas, 1977 (1).

An. (Ste.) nimbus (Theobald): Causey *et al.*, 1944 (1, 2); Cova-Garcia, 1946 (1); Levi-Castillo, 1949 (1); Freeborn, 1949 (2); Lane, 1953 (1, 2); Cova-Garcia & Sutil Oramas, 1977 (1).

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

Bironella (Brugella) hollandi Taylor: Belkin *et al.*, 1945 (1, 2); Dumbleton, 1945 (1, 2), 1946 (1, 2); Belkin, 1962 (2); Mattingly, 1971 (1).

Species of genus *Chagasia* Cruz with the egg illustrated and/or described

Chagasia bathana (Dyar): Levi-Castillo, 1949 (1); Baerg & Boreham, 1974b (1, 2).

Ch. fajardi (Lutz): Theobald, 1910 (1); Howard *et al.*, 1913 (2); Galvão & Barretto, 1938a (1, 2); Causey *et al.*, 1945 (1, 2); Levi-Castillo, 1949 (1); Freeborn, 1949 (2); Lane, 1953 (1, 2); Mattingly, 1971 (1); Linley & Milstrey, 1995 (1, 2); Linley *et al.*, 1998 (1); Forattini, 2002 (1).

Ch. rozeboomi Causey, Deane & Deane: Causey *et al.*, 1944 (1, 2), 1945 (1, 2); Levi-Castillo, 1949 (1); Freeborn, 1949 (2); Lane, 1953 (1, 2).

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